

4.2.A. 0513010501.



Figure 4-2. Location of Subwatershed 0513010501. All Obey River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.2.A.i. 051301050101 (East Fork Obey River).

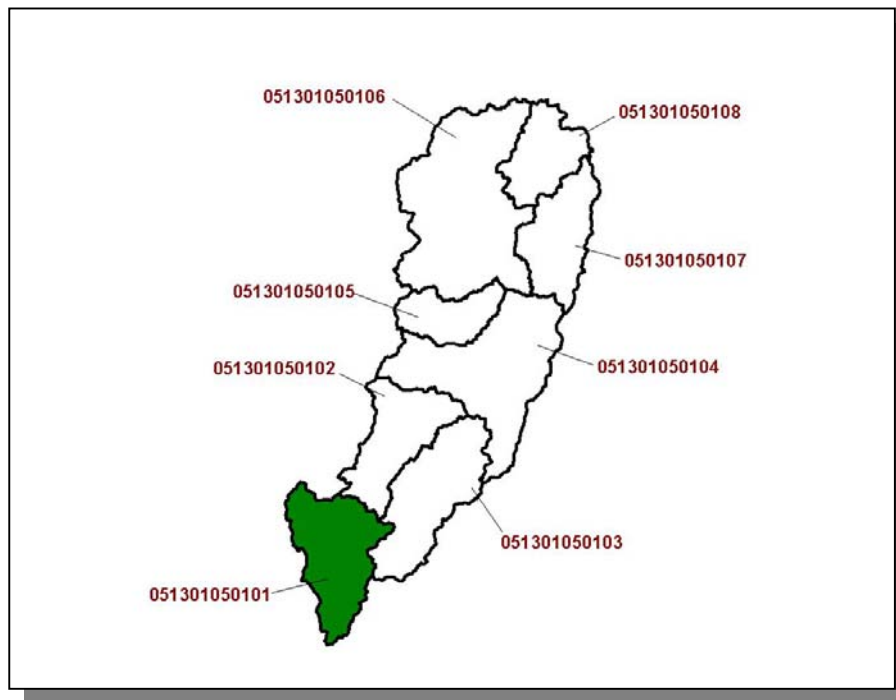


Figure 4-3. Location of Subwatershed 051301050101. All Obey River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

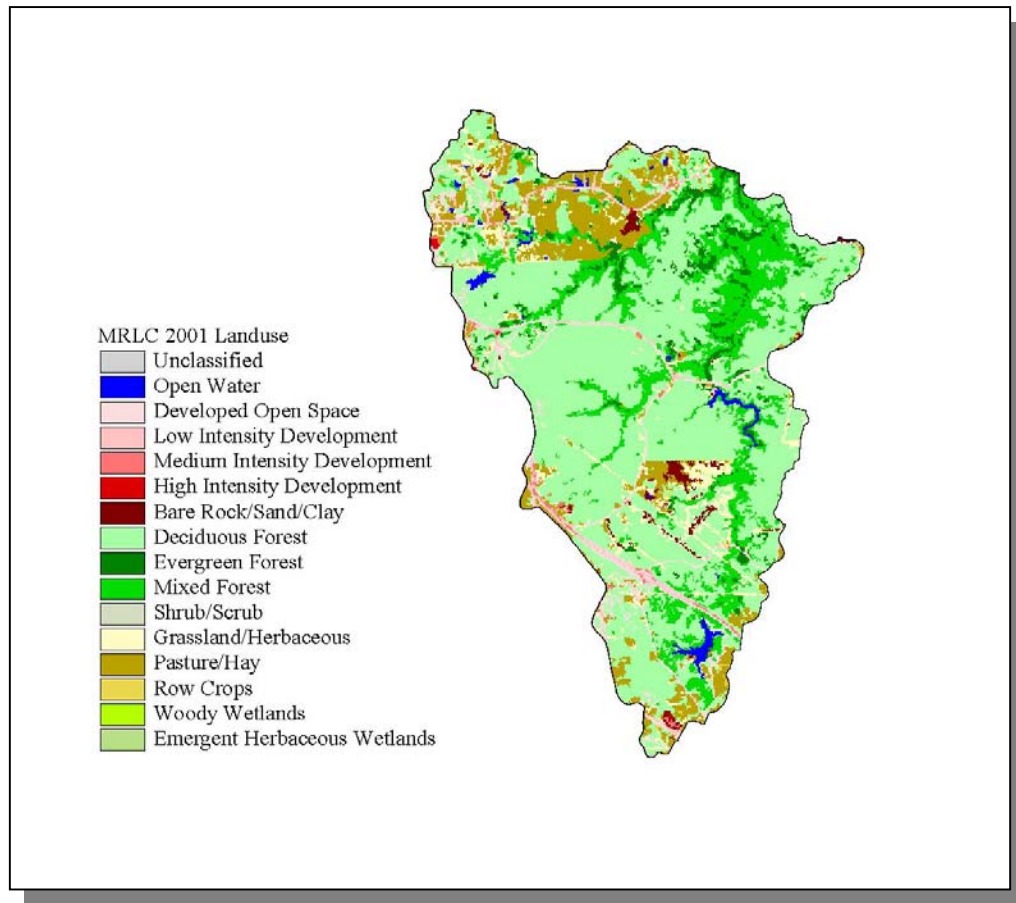


Figure 4-4. Illustration of Land Use Distribution in Subwatershed 051301050101.

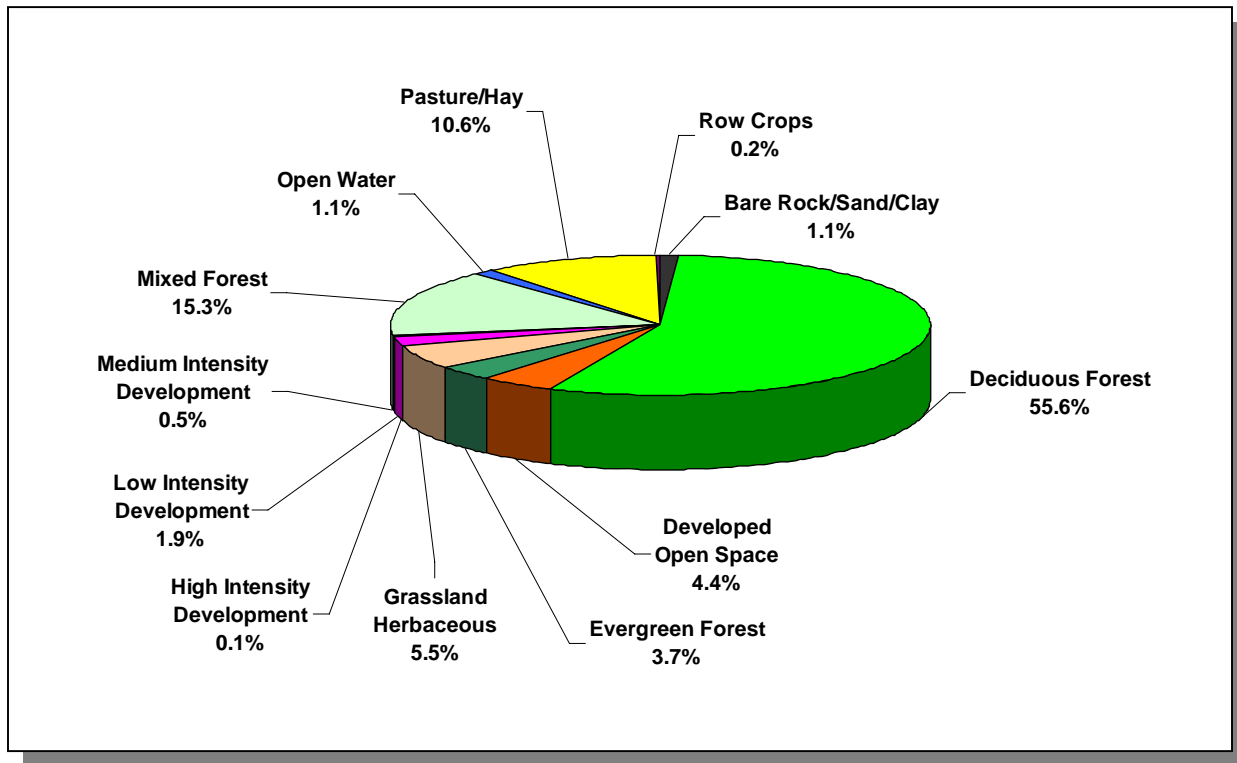


Figure 4-5. Land Use Distribution in Subwatershed 051301050101. More information is provided in Appendix IV.

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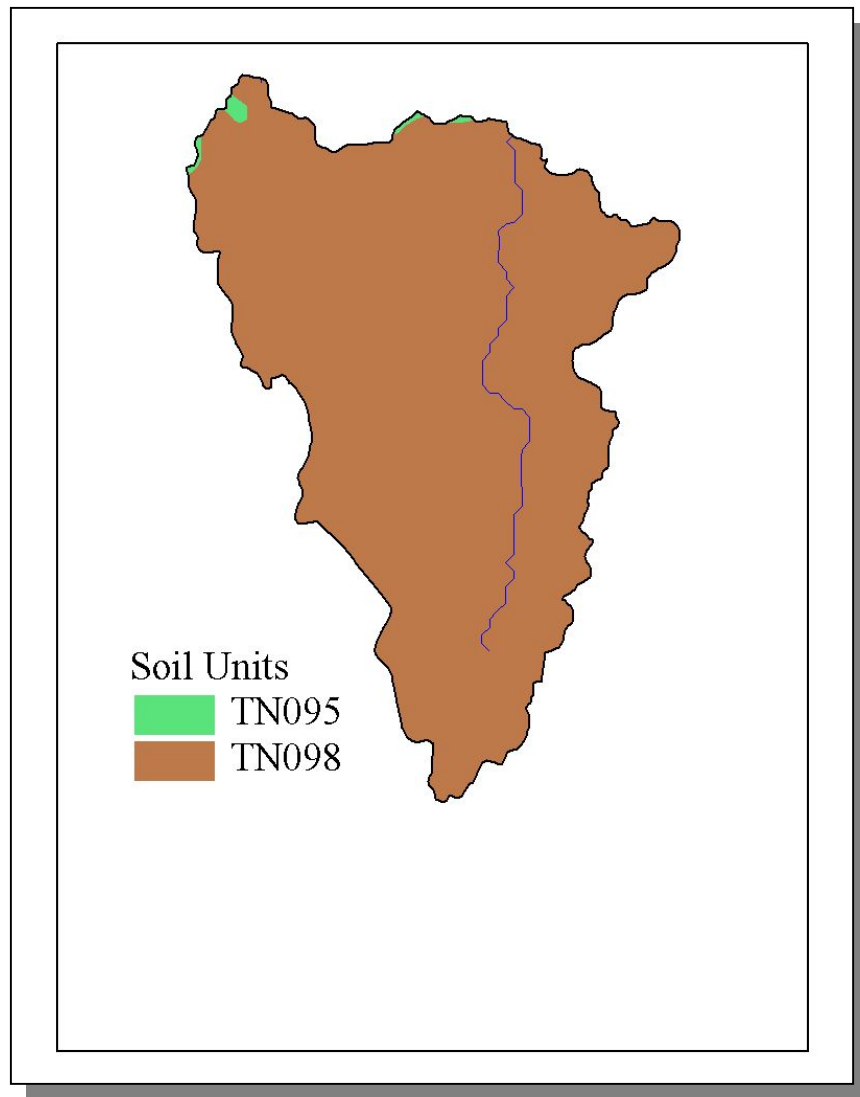


Figure 4-6. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050101.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	2.98	4.82	Loam	0.32

Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050101. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Cumberland	34,736	43,217	46,802	1.63	566	705	763	34.8
Overton	17,636	19,171	20,118	0.24	43	46	49	14.0
Putnam	51,373	58,326	62,315	4.56	2,342	2,659	2,841	21.3
Total	103,745	120,714	129,235		2,951	3,410	3,653	23.8

Table 4-3. Population Estimates in Subwatershed 051301050101.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Monterey	Putnam	2,559	1,113	875	228	10

Table 4-4. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051301050101.



Figure 4-7. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301050101. More information, including site names and locations, is provided in Appendix IV.

4.2.A.i.a. Point Source Contributions.

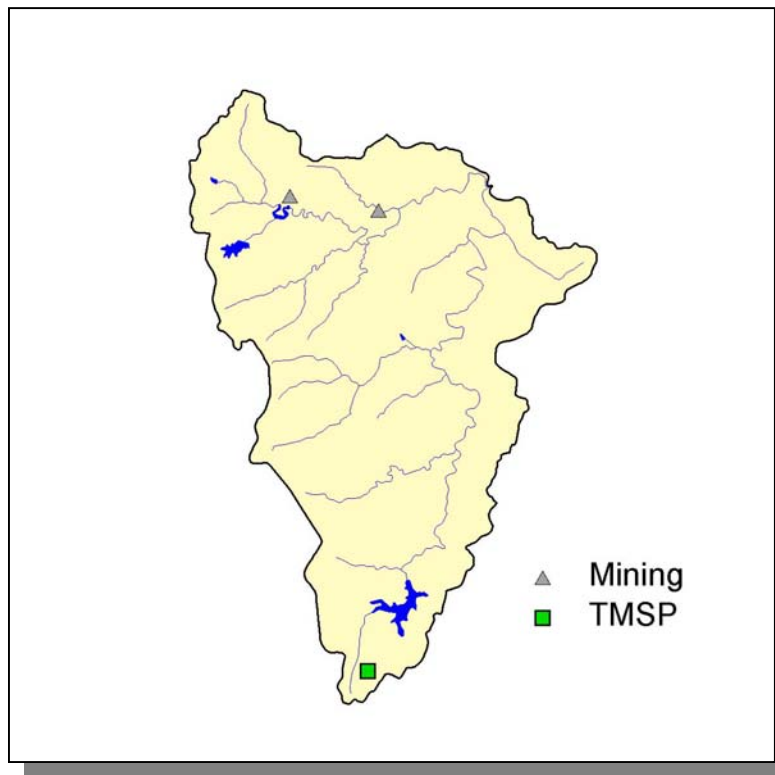


Figure 4-8. Location of Permits Issued in Subwatershed 051301050101. More information, including the names of facilities, is provided in Appendix IV.

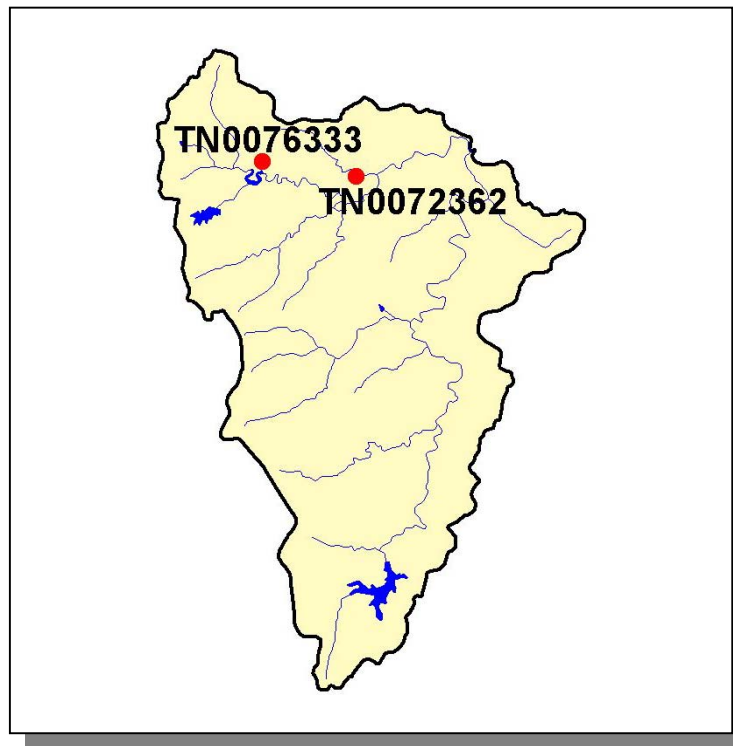


Figure 4-9. Location of Active Mining Sites in Subwatershed 051301050101. More information, including the names of mining operations, is provided in Appendix IV.

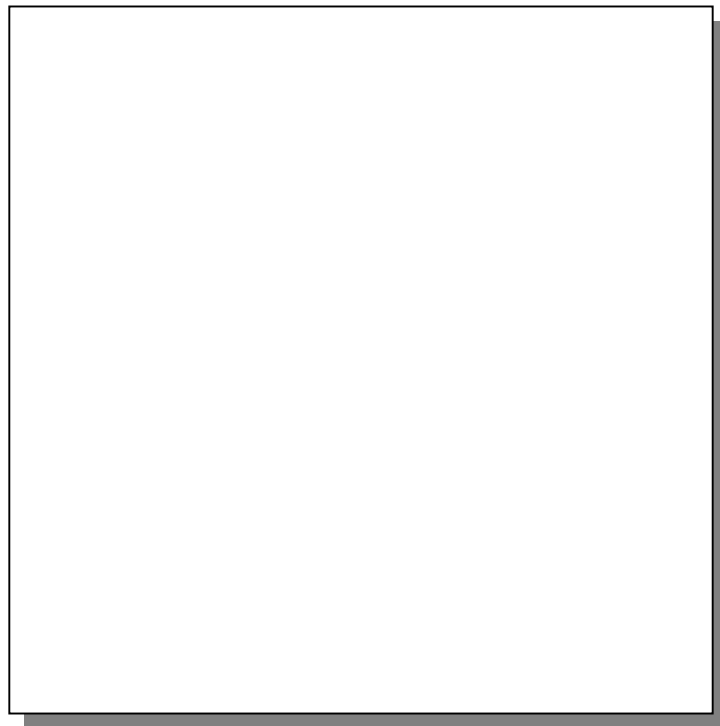


Figure 4-10. Location of TMSP Sites in Subwatershed 051301050101. More information, including the names of facilities, is provided in Appendix IV.

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4.2.A.i.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
320	662	39	<5	66	5

Table 4-5. Summary of Livestock Count Estimates in Subwatershed 051301050101. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Cumberland	9,468	23,179	2,296	43	6,038	461
Overton	15,150	27,812	1,200	1,173	811	59
Putnam	12,592	24,817	1,095	1,025	1,070	66

Table 4-6. Summary of Livestock Count Estimates in Cumberland, Overton, and Putnam Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Cumberland	320.3	320.3	5.9	22.5
Overton	170.3	170.3	1.7	7.0
Putnam	152.5	152.5	3.6	16.4

Table 4-7. Forest Acreage and Annual Removal Rates (1987-1994) in Cumberland, Overton, and Putnam Counties.

CROPS	TONS/ACRE/YEAR
Legumes (Pastureland)	0.15
Grass (Pastureland)	1.30
Grass (Hayland)	2.10
Legumes, Grass (Hayland)	0.53
Legumes (Hayland)	0.23
Grass, Forbs, Legumes (Mixed Pasture)	0.70
Corn (Row Crops)	3.82
Soybeans (Row Crops)	6.65
Wheat (Close-Grown Cropland)	7.00
Tobacco (Row Crops)	12.38
Other Vegetable and Truck Crops	14.63
Conservation Reserve Program Lands	0.46
Farmsteads and Ranch Headquarters	0.23

Table 4-8. Annual Estimated Total Soil Loss in Subwatershed 051301050101.

4.2.A.ii. 051301050102 (East Fork Obey River).

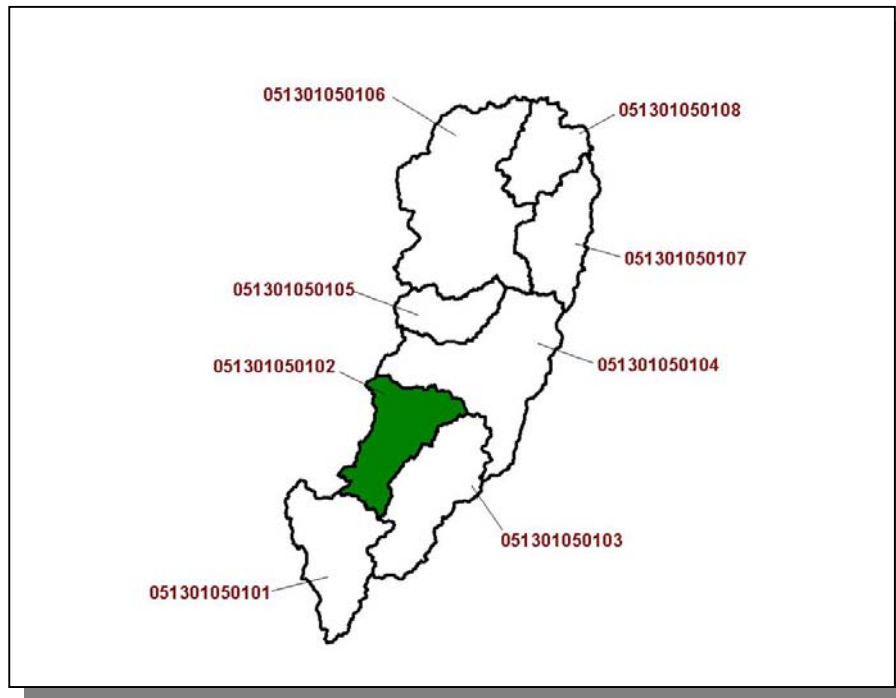


Figure 4-11. Location of Subwatershed 051301050102. All Obey River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

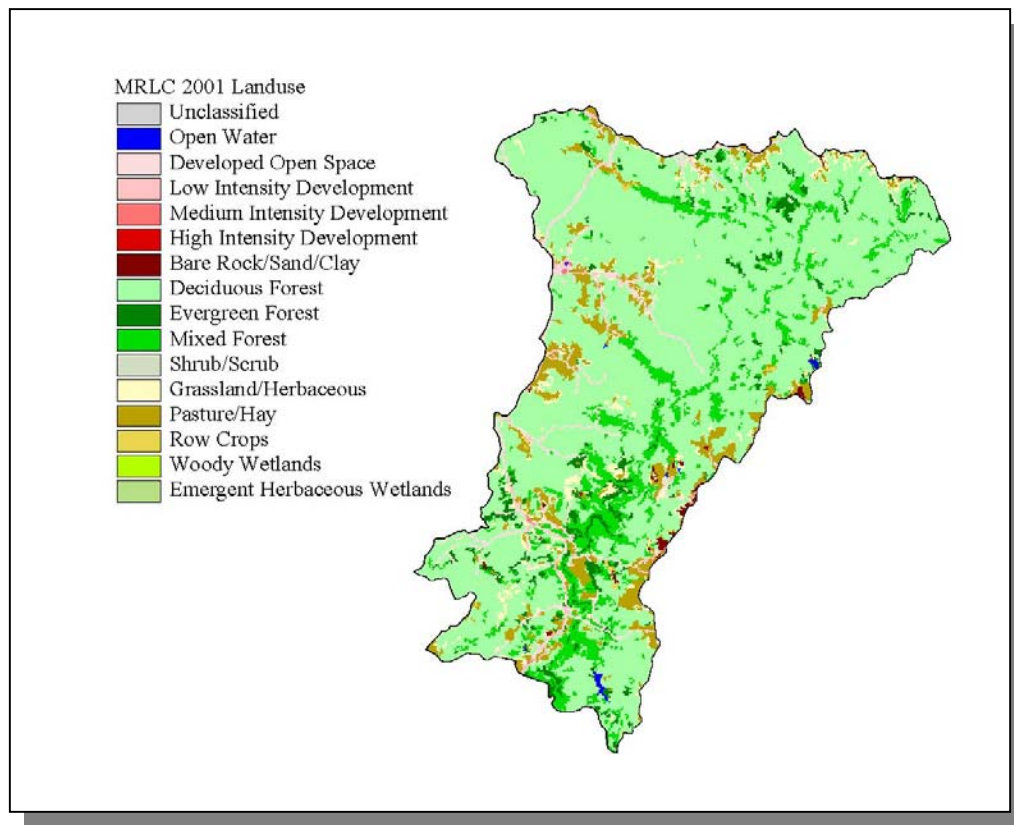


Figure 4-12. Illustration of Land Use Distribution in Subwatershed 051301050102.

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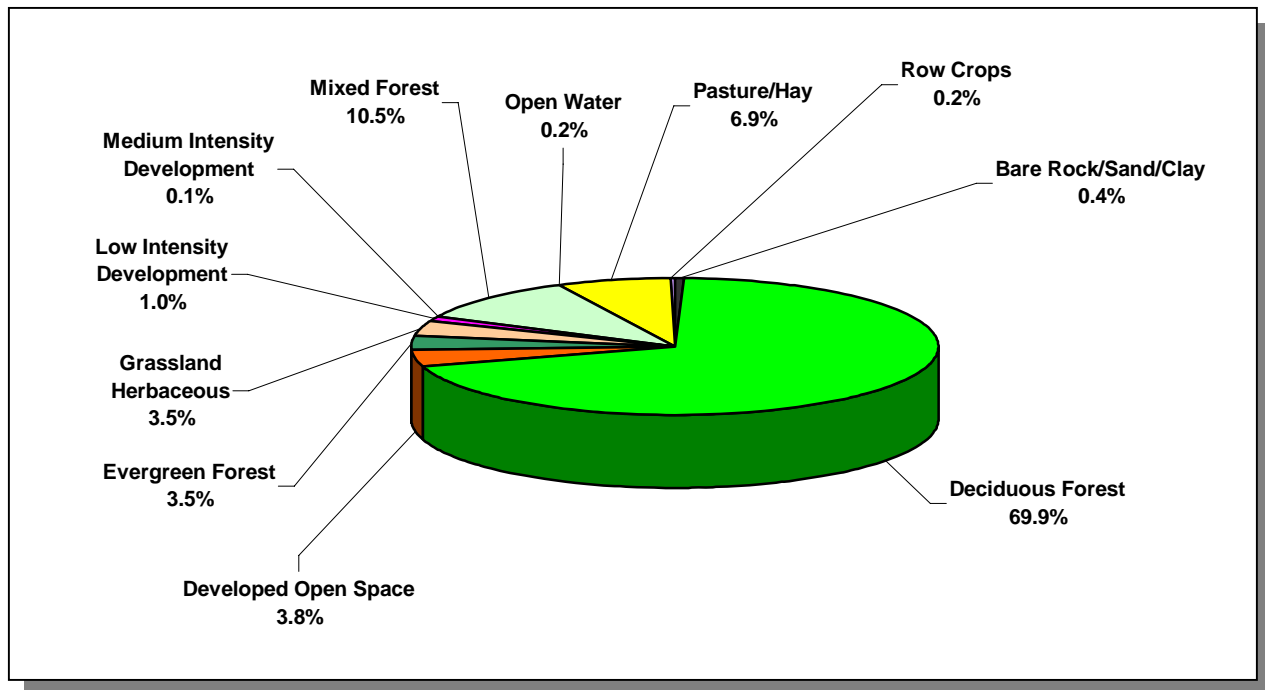


Figure 4-13. Land Use Distribution in Subwatershed 051301050102. More information is provided in Appendix IV.

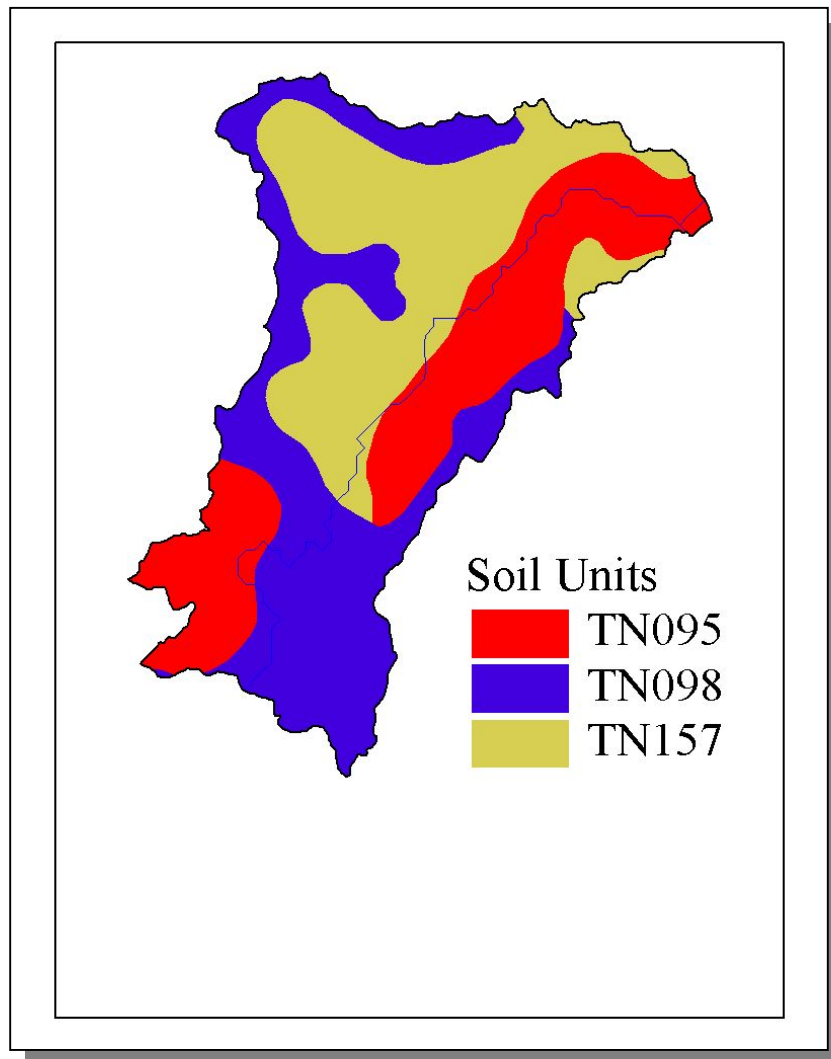


Figure 4-14. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050102.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	2.98	4.82	Loam	0.32
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-9. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050102. The definition of "Hydrologic Group" is provided in Appendix IV.

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	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	Portion of Watershed (%)	1990	1997	2000	% Change (1990-2000)
Fentress	14,669	15,920	16,625	0.3	45	48	50	11.1
Overton	17,636	19,171	20,118	5.6	988	1,074	1,128	14.2
Putnam	51,373	58,326	62,315	0.06	28	32	34	21.4
Total	83,678	93,417	99,058		1,061	1,154	1,212	14.2

Table 4-10. Population Estimates in Subwatershed 051301050102.

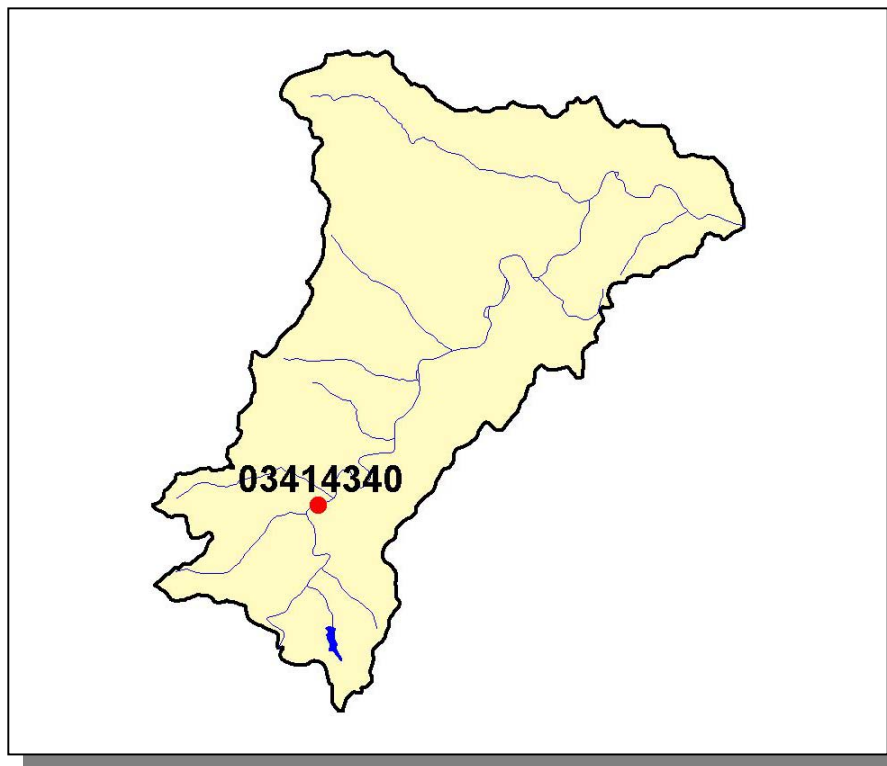


Figure 4-15. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301050102. More information is provided in Appendix IV.

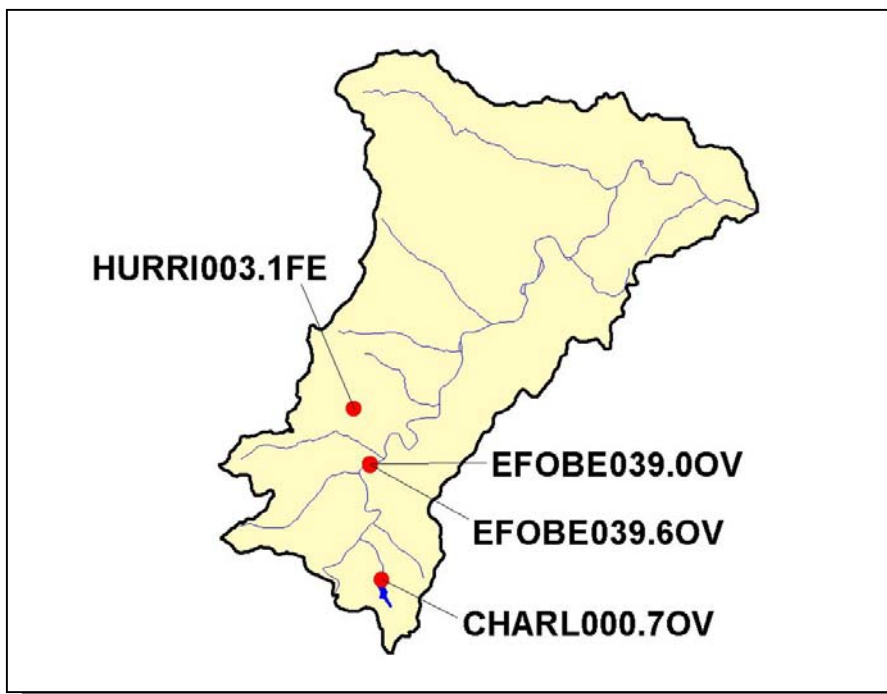


Figure 4-16. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301050102. More information, including site names and locations, is provided in Appendix IV.

4.2.A.ii.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.A.ii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
168	308	13	<5	515	9	<5

Table 4-11. Summary of Livestock Count Estimates in Subwatershed 051301050102. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Fentress	8,058	17,259	430	474	7,290,026	729	79
Overton	15,150	27,812	1,200	1,173	0	811	59
Putnam	12,592	24,817	1,095	1,025	0	1,070	66

Table 4-12. Summary of Livestock Count Estimates in Fentress, Overton, and Putnam Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3
Overton	170.3	170.3	1.7	7.0
Putnam	152.5	152.5	3.6	16.4

Table 4-13. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress, Overton, and Putnam Counties.

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CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.30
Grass (Hayland)	0.32
Legumes, Grass (Hayland)	2.74
Legumes (Hayland)	0.23
Grass, Forbs, Legumes (Mixed Pasture)	0.64
Corn (Row Crops)	5.03
Soybeans (Row Crops)	10.51
Tobacco (Row Crops)	12.38
Wheat (Close-Grown Cropland)	9.11
Other Vegetable and Truck Crops	21.08
Conservation Reserve Program Lands	0.46
Farmsteads and Ranch Headquarters	0.57

Table 4-14. Annual Estimated Total Soil Loss in Subwatershed 051301050102.

4.2.A.iii. 051301050103 (Hurricane Creek).

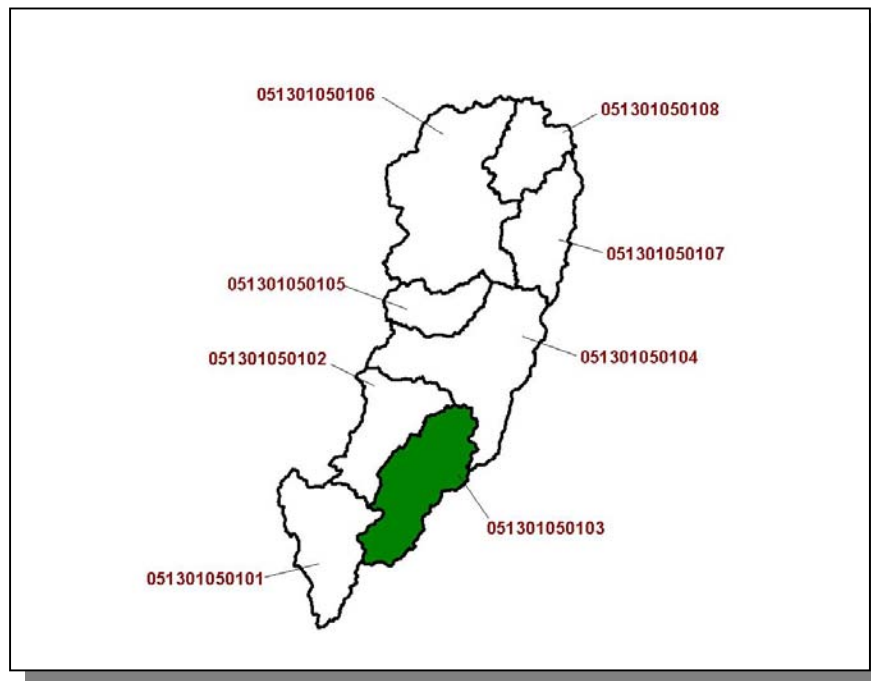


Figure 4-17. Location of Subwatershed 051301050103. All Obey River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

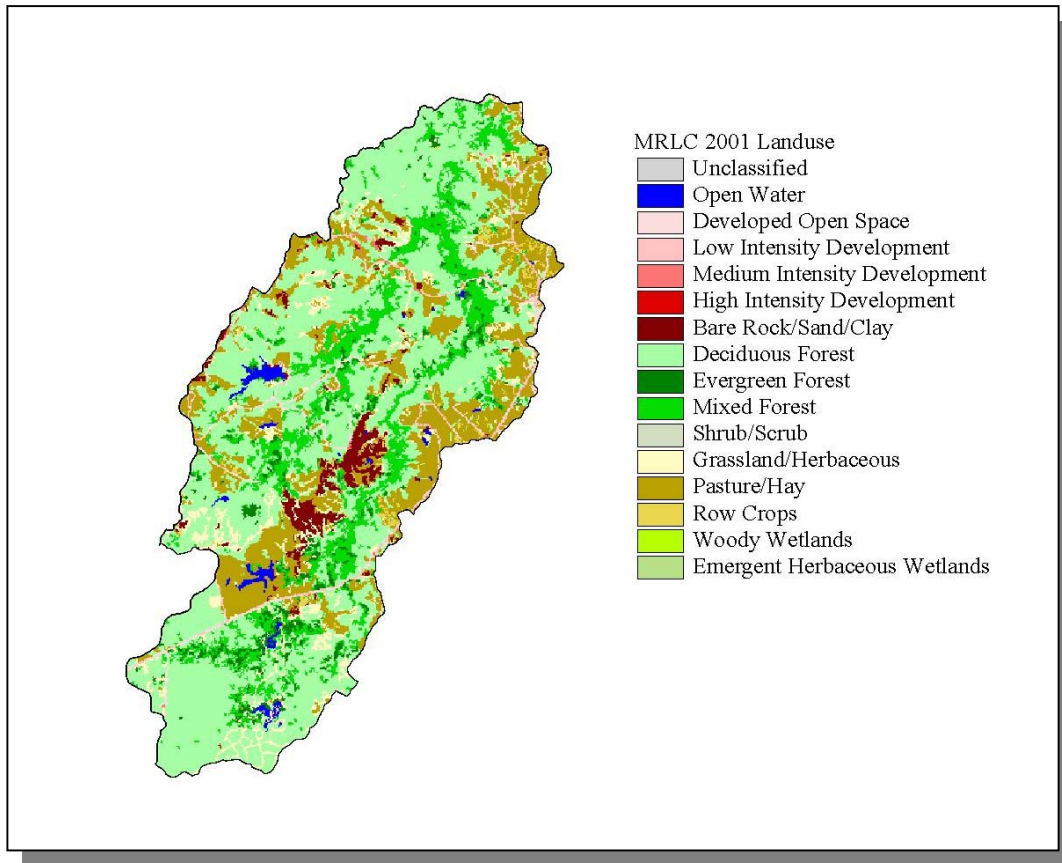


Figure 4-18. Illustration of Land Use Distribution in Subwatershed 051301050103.

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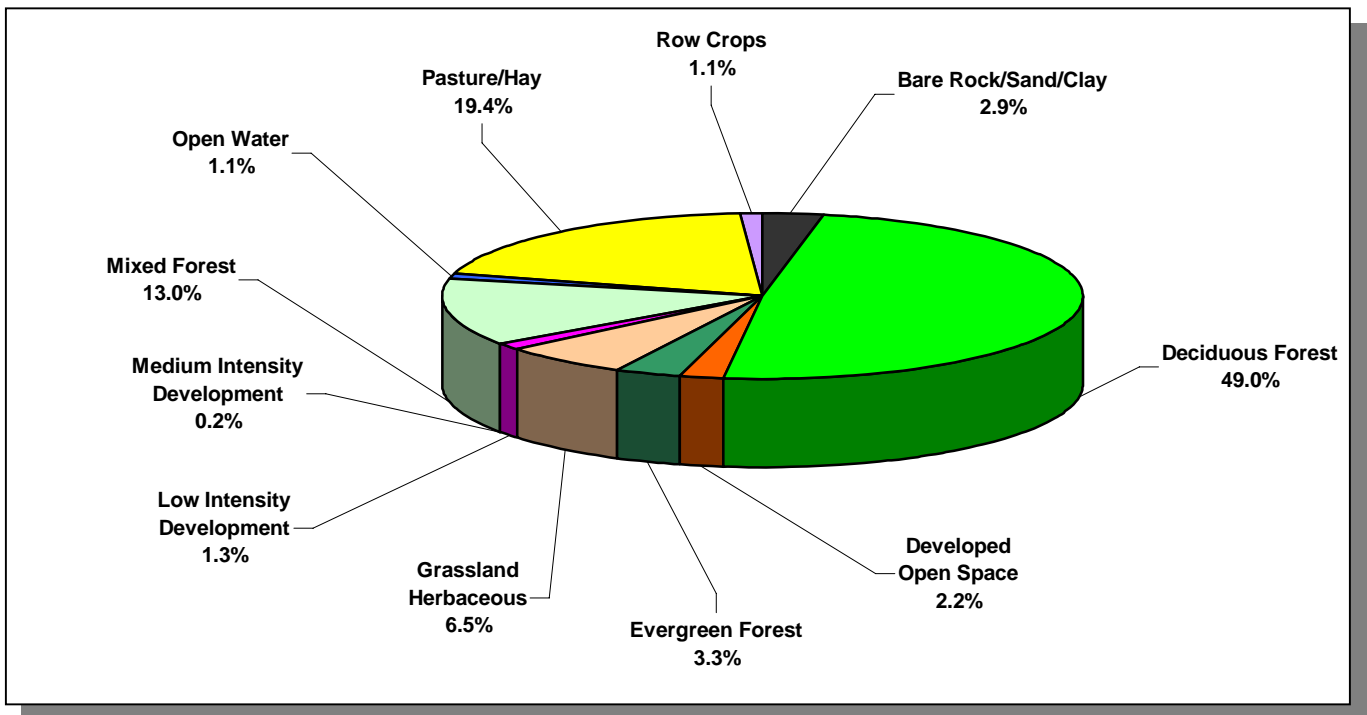


Figure 4-19. Land Use Distribution in Subwatershed 051301050103. More information is provided in Appendix IV.

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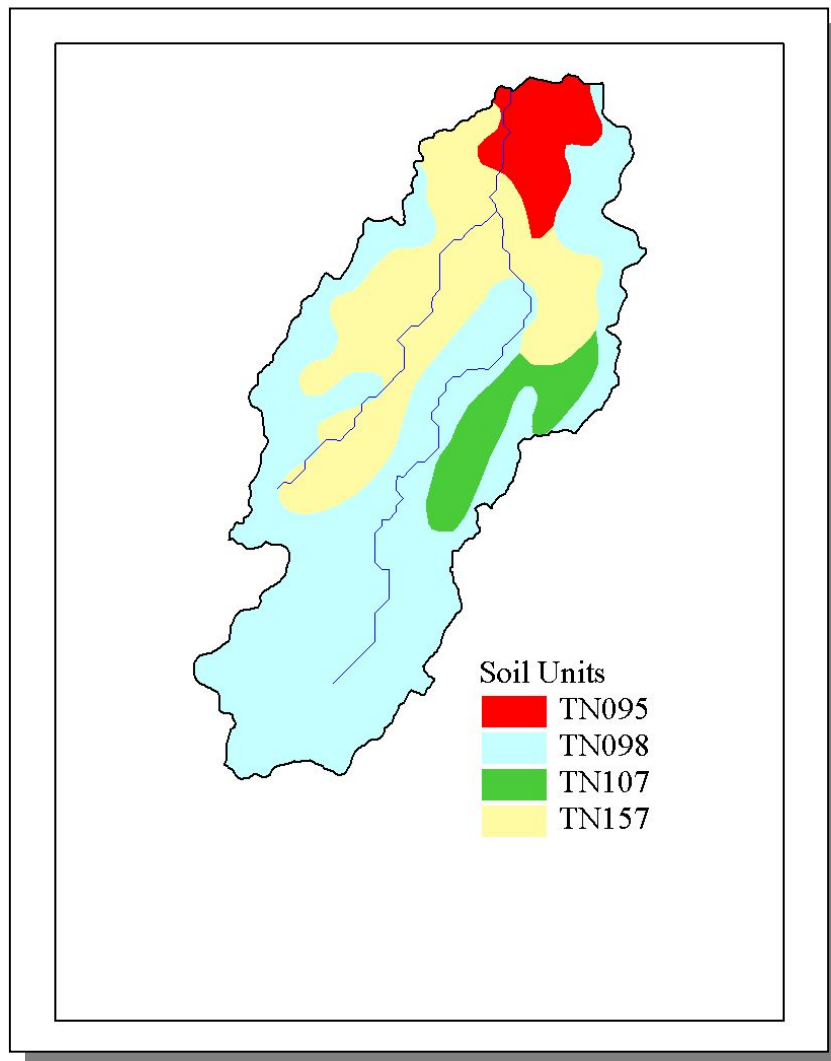


Figure 4-20. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050103.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	2.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-15. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050103. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Cumberland	34,736	43,217	46,802	0.65	227	283	306	34.8
Fentress	14,669	15,920	16,625	2.42	355	386	403	13.5
Overton	17,636	19,171	20,118	2.46	434	471	495	14.1
Putnam	51,373	58,326	62,315	1.63	837	950	1,015	21.3
Total	118,414	136,634	145,860		1,853	2,090	2,219	19.8

Table 4-16. Population Estimates in Subwatershed 051301050103.



Figure 4-21. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301050103. More information, including site names and locations, is provided in Appendix IV.

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4.2.A.iii.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.A.iii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
602	1,229	42	<5	307,092	57	5

Table 4-17. Summary of Livestock Count Estimates in Subwatershed 051301050103. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Cumberland	9,468	23,179	2,296	43	0	6,038	461
Fentress	8,058	17,259	430	474	7,290,026	729	79
Overton	15,150	27,812	1,200	1,173	0	811	59
Putnam	12,592	24,817	1,095	1,025	0	1,070	66

Table 4-18. Summary of Livestock Count Estimates in Cumberland, Fentress, Overton, and Putnam Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Cumberland	320.3	320.3	5.9	22.5
Fentress	244.1	244.1	3.6	14.3
Overton	170.3	170.3	1.7	7.0
Putnam	152.5	152.3	3.6	16.4

Table 4-19. Forest Acreage and Annual Removal Rates (1987-1994) in Cumberland, Fentress, Overton, and Putnam Counties.

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CROPS	TONS/ACRE/YEAR
Legumes (Pastureland)	0.15
Grass (Pastureland)	0.76
Grass (Hayland)	1.27
Legumes, Grass (Hayland)	1.26
Legumes (Hayland)	0.23
Grass, Forbs, Legumes (Mixed Pasture)	0.53
Corn (Row Crops)	9.47
Soybeans (Row Crops)	7.93
Tobacco (Row Crops)	12.38
Wheat (Close-Grown Cropland)	26.23
Other Vegetable and Truck Crops	17.18
Conservation Reserve Program Lands	0.46
Farmsteads and Ranch Headquarters	0.40

Table 4-20. Annual Estimated Total Soil Loss in Subwatershed 051301050103.

4.2.A.iv. 051301050104 (East Fork Obey River).

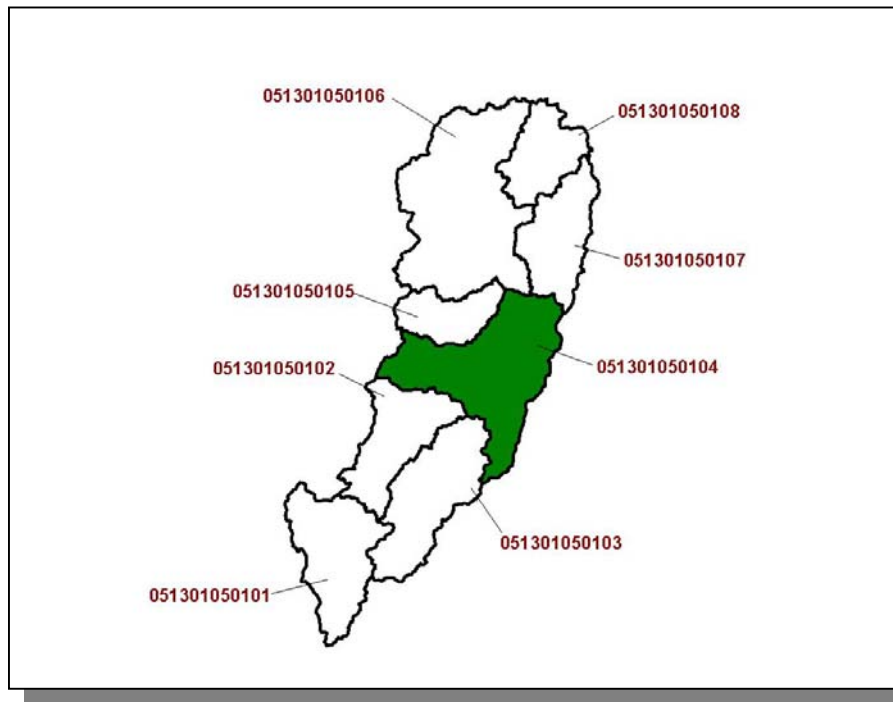


Figure 4-22. Location of Subwatershed 051301050104. All Obey River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

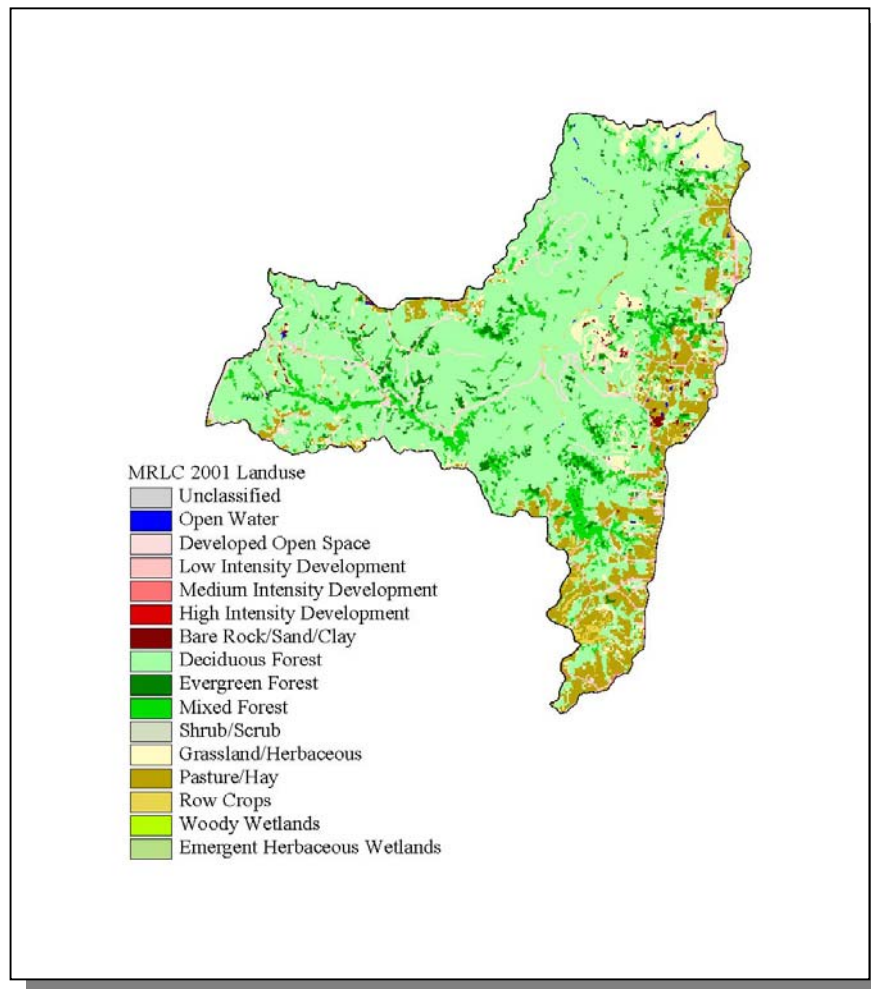


Figure 4-23. Illustration of Land Use Distribution in Subwatershed 051301050104.

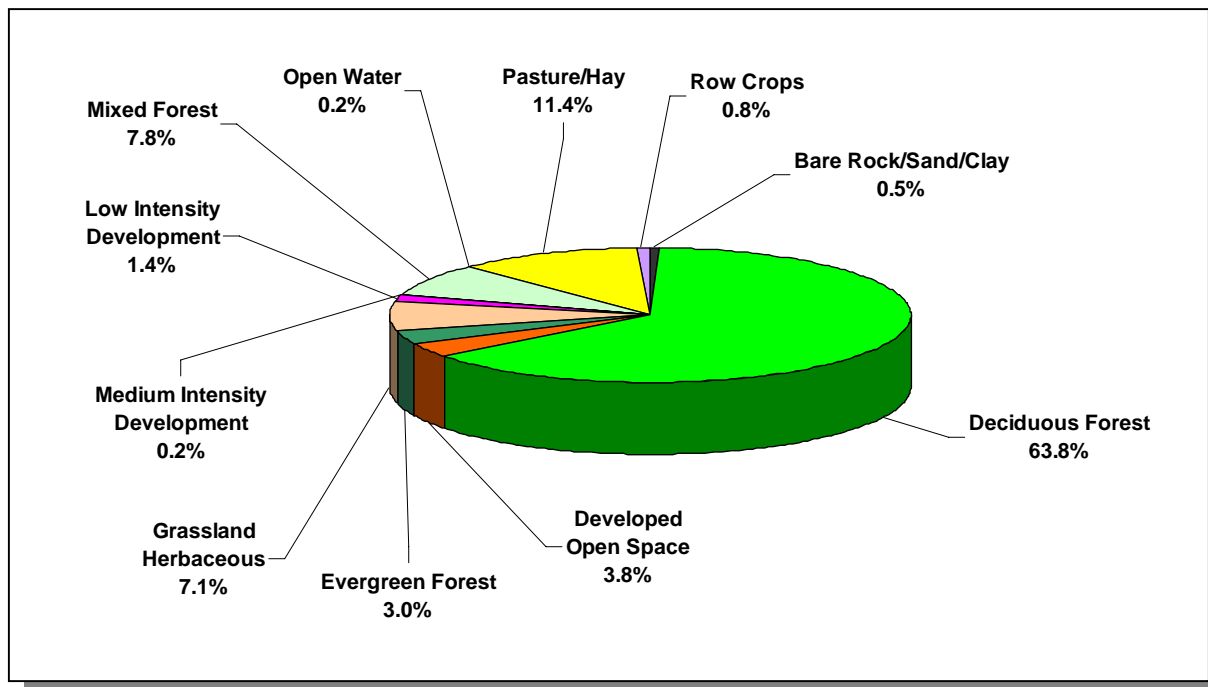


Figure 4-24. Land Use Distribution in Subwatershed 051301050104. More information is provided in Appendix IV.

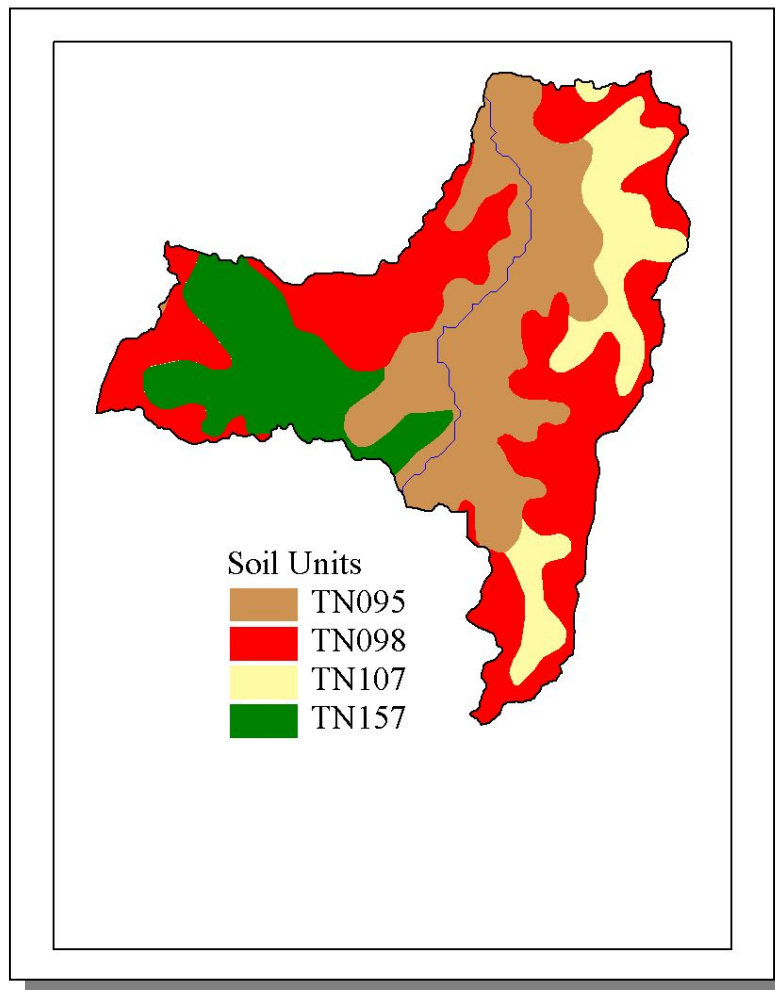


Figure 4-25. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050104.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	2.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-21. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050104. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fentress	14,669	15,920	16,625	8.65	1,269	1,377	1,438	13.3
Overton	17,636	19,171	20,118	1.67	295	320	336	13.9
Total	32,305	35,091	36,743		1,564	1,697	1,774	13.4

Table 4-22. Population Estimates in Subwatershed 051301050104.

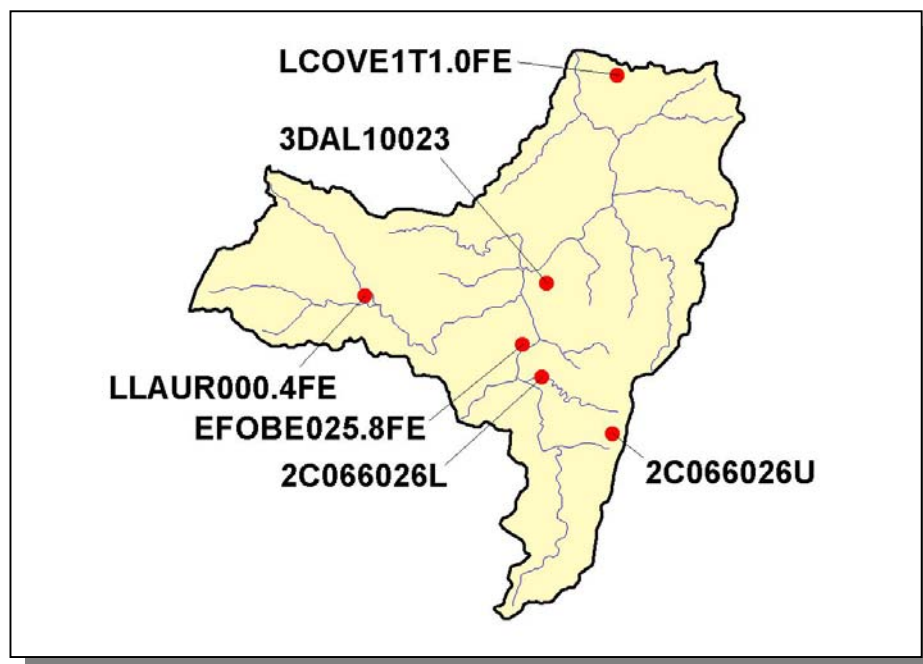


Figure 4-26. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301050104. More information, including site names and locations, is provided in Appendix IV.

4.2.A.iv.a. Point Source Contributions.



Figure 4-27. Location of Permits Issued in Subwatershed 051301050104. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-28. Location of Active Mining Sites in Subwatershed 051301050104. More information, including the names of mining operations, is provided in Appendix IV.

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4.2.A.iv.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
591	1,257	32	<5	509,675	52	6

Table 4-23. Summary of Livestock Count Estimates in Subwatershed 051301050104.

According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Fentress	8,058	17,259	430	474	7,290,026	729	79
Overton	15,150	27,812	1,200	1,173	0	811	59

Table 4-24. Summary of Livestock Count Estimates in Fentress and Overton Counties.

According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3
Overton	170.3	170.3	1.7	7.0

Table 4-25. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress and Overton Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.65
Grass (Hayland)	0.31
Legumes, Grass (Hayland)	0.90
Grass, Forbs, Legumes (Mixed Pasture)	0.33
Corn (Row Crops)	14.46
Soybeans (Row Crops)	6.69
Wheat (Close-Grown Cropland)	38.11
Other Vegetable and Truck Crops	16.75
Conservation Reserve Program Lands	0.46
Farmsteads and Ranch Headquarters	0.42

Table 4-26. Annual Estimated Total Soil Loss in Subwatershed 051301050104.

4.2.A.v. 051301050105 (Piney Creek).

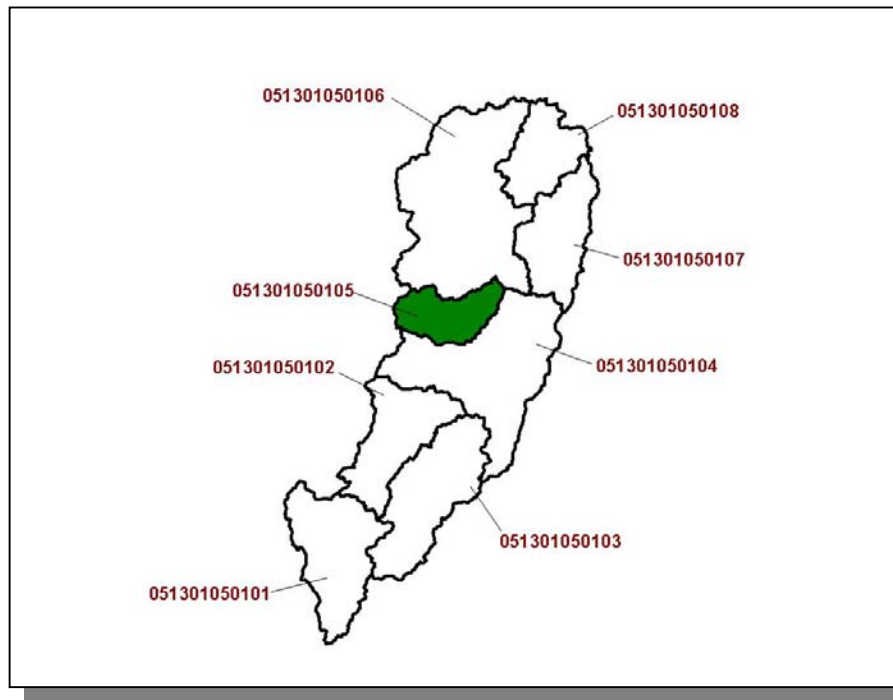


Figure 4-29. Location of Subwatershed 051301050105. All Obey River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

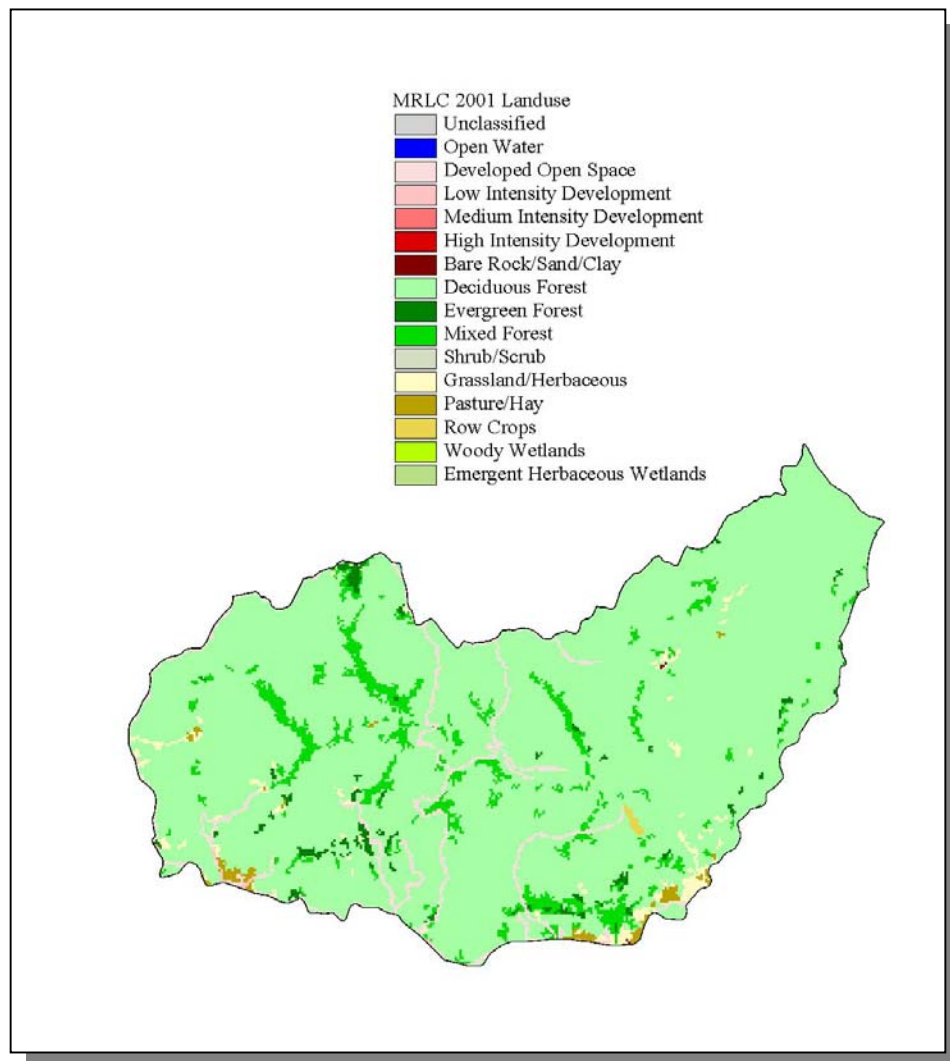


Figure 4-30. Illustration of Land Use Distribution in Subwatershed 051301050105.

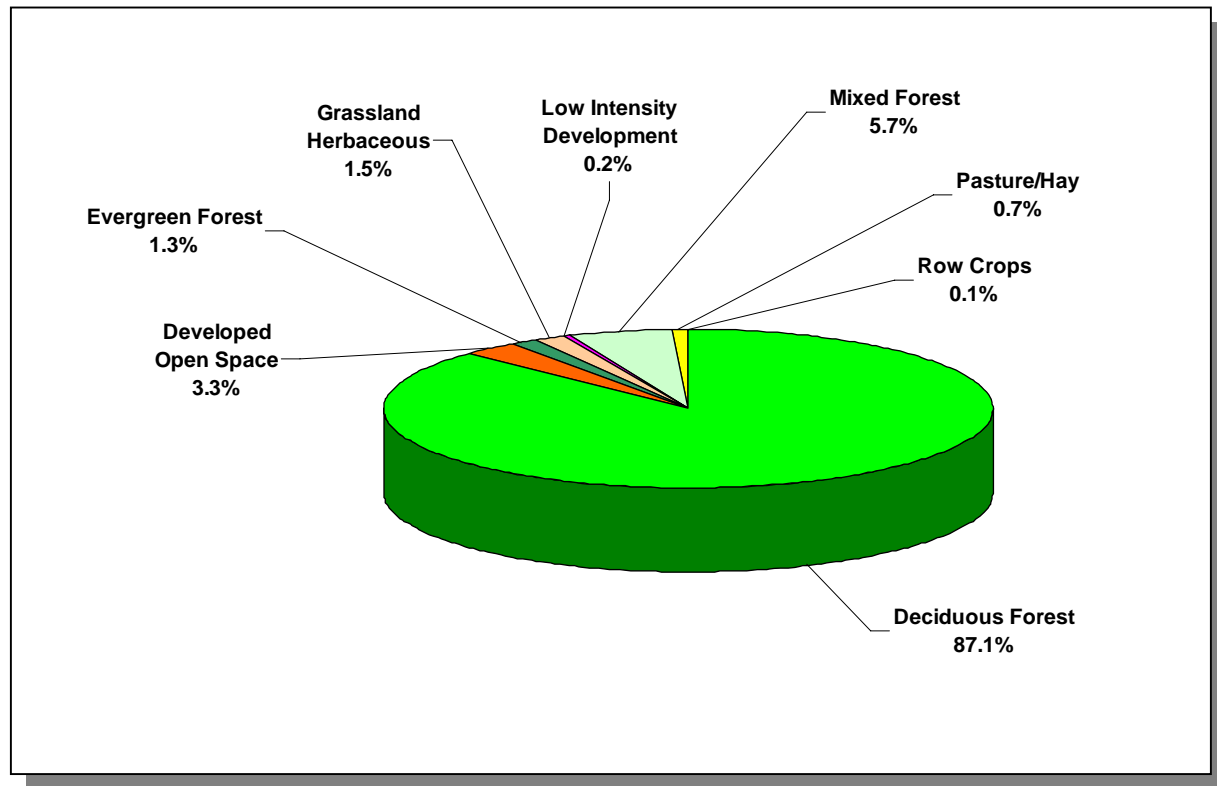


Figure 4-31. Land Use Distribution in Subwatershed 051301050105. More information is provided in Appendix IV.

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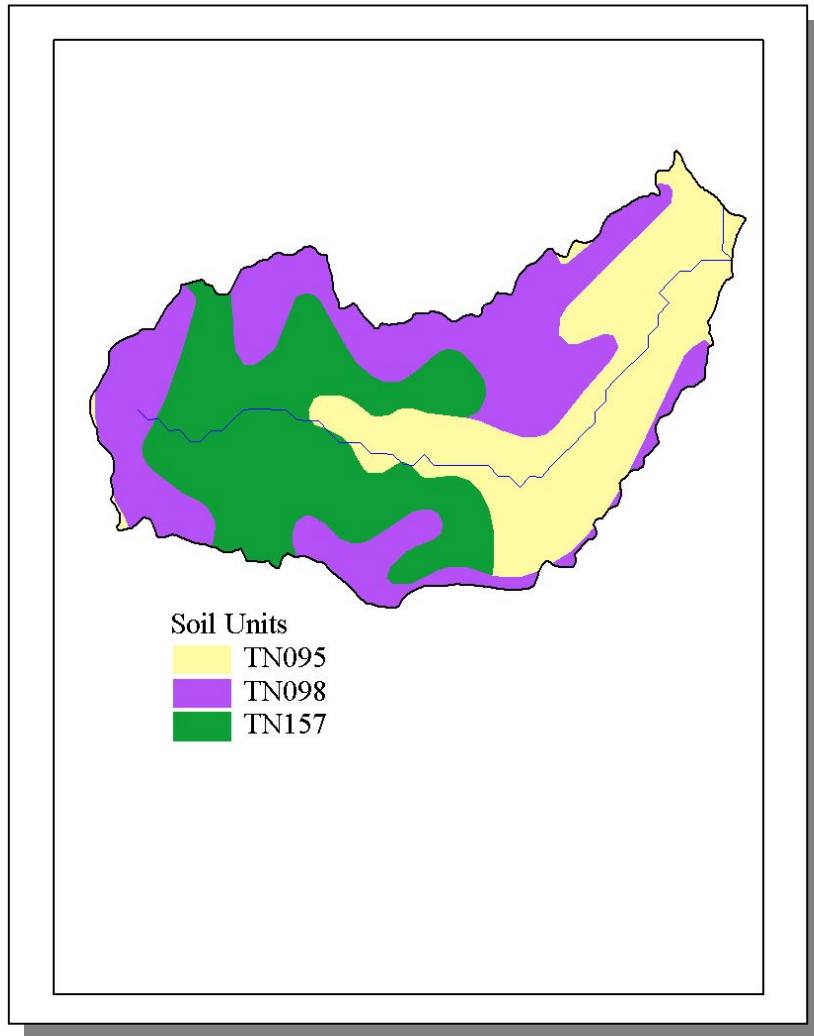


Figure 4-32. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050105.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	2.98	4.82	Loam	0.32
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-27. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050105. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fentress	14,669	15,920	16,625	2.47	362	393	410	13.3
Overton	17,636	19,171	20,118	0.66	117	127	133	13.7
Total	32,305	35,091	36,743		479	520	543	13.4

Table 4-28. Population Estimates in Subwatershed 051301050105.

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4.2.A.v.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.A.v.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS				
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Hogs
14	31	<5	12,356	<5

Table 4-29. Summary of Livestock Count Estimates in Subwatershed 051301050105.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Fentress	8,058	17,259	430	474	7,290,026	729	79
Overton	15,150	27,812	1,200	1,173	0	811	59

Table 4-30. Summary of Livestock Count Estimates in Fentress and Overton Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3
Overton	170.3	170.3	1.7	7.0

Table 4-31. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress and Overton Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.63
Grass (Hayland)	0.31
Legumes, Grass (Hayland)	1.01
Forest Land (Not Grazed)	0.35
Corn (Row Crops)	13.91
Soybeans (Row Crops)	6.91
Wheat (Close-Grown Cropland)	36.43
Other Vegetable and Truck Crops	17.00
Conservation Reserve Program Lands	0.46
Farmsteads and Ranch Headquarters	0.43

Table 4-32. Annual Estimated Total Soil Loss in Subwatershed 051301050105.

4.2.A.vi. 051301050106 (East Fork Obey River).

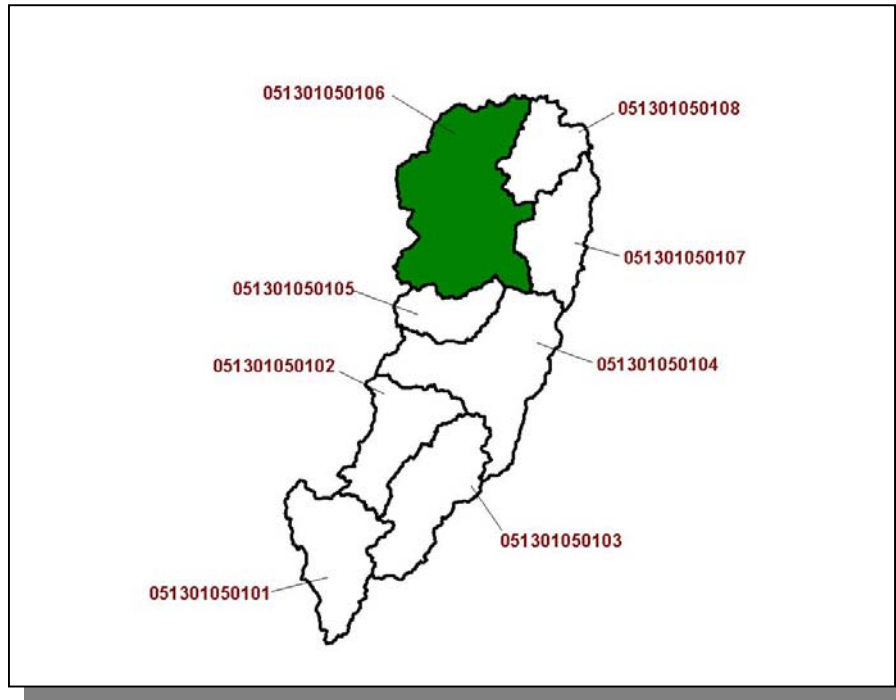


Figure 4-33. Location of Subwatershed 051301050106. All Obey River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

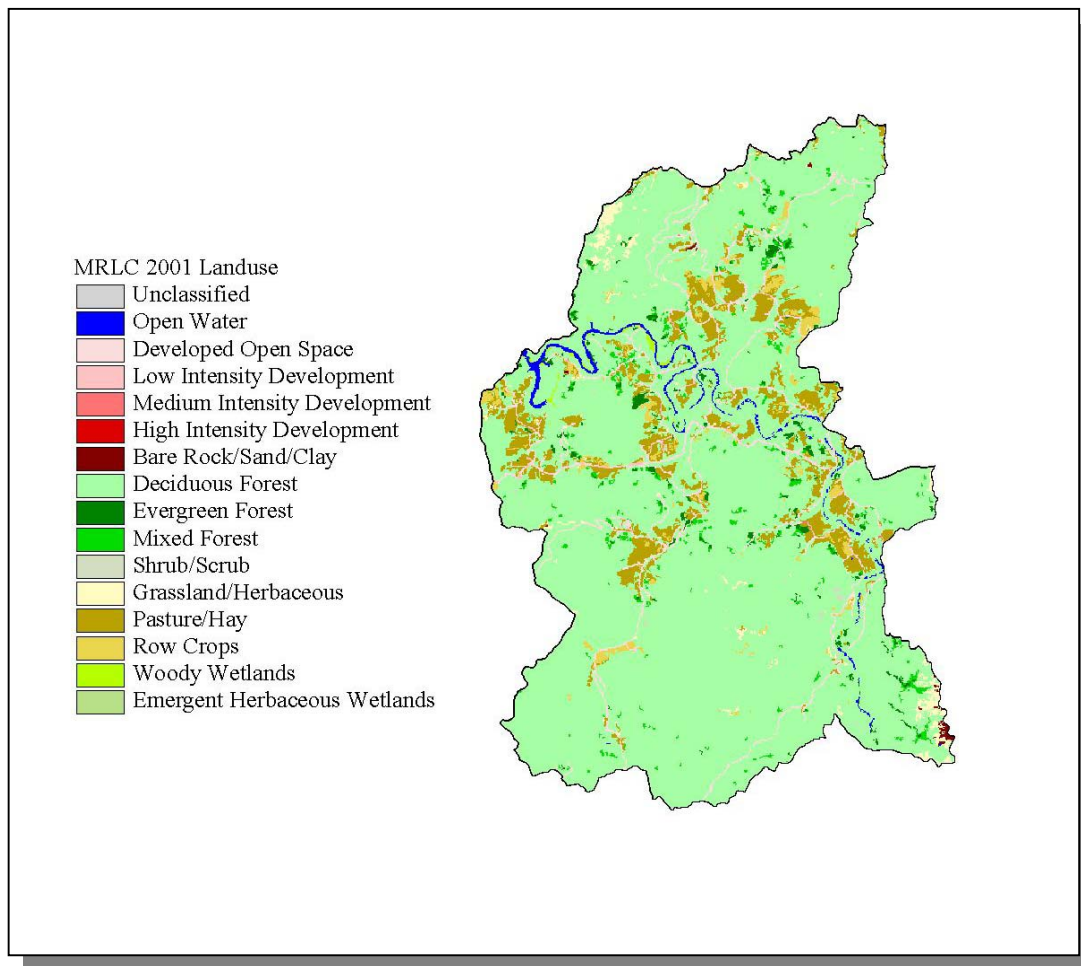


Figure 4-34. Illustration of Land Use Distribution in Subwatershed 051301050106.

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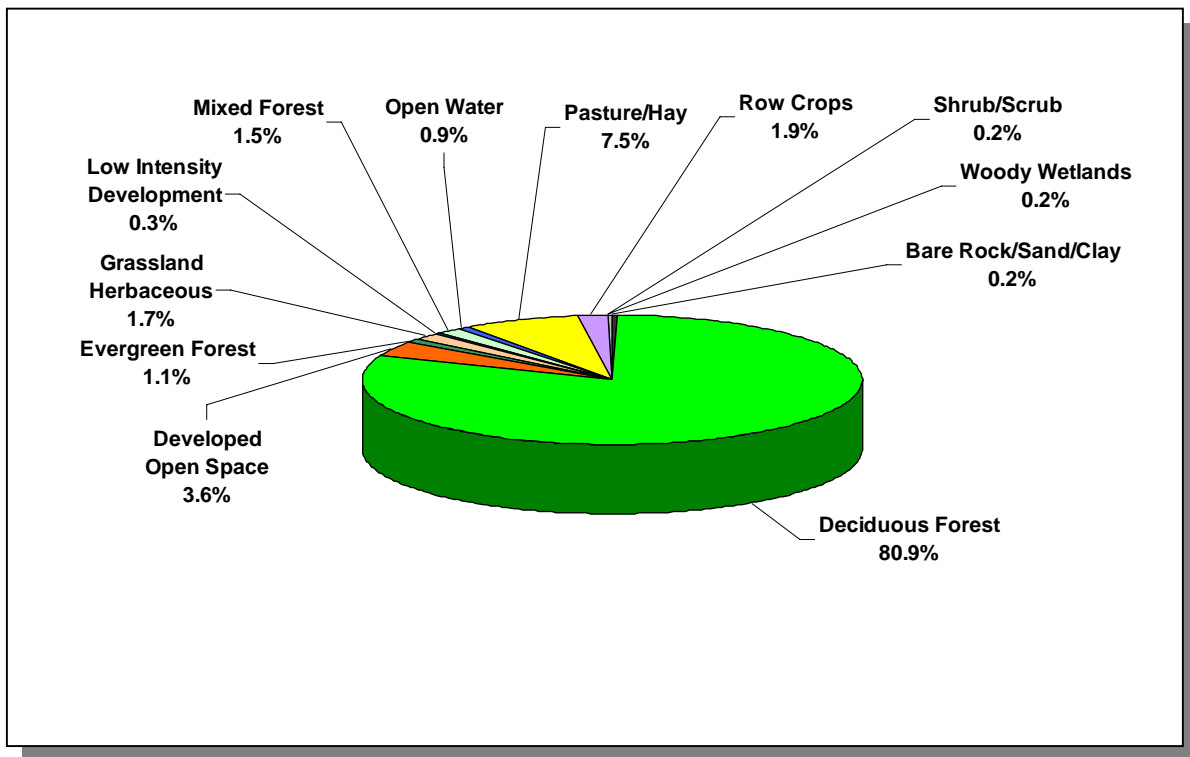


Figure 4-35. Land Use Distribution in Subwatershed 051301050106. More information is provided in Appendix IV.

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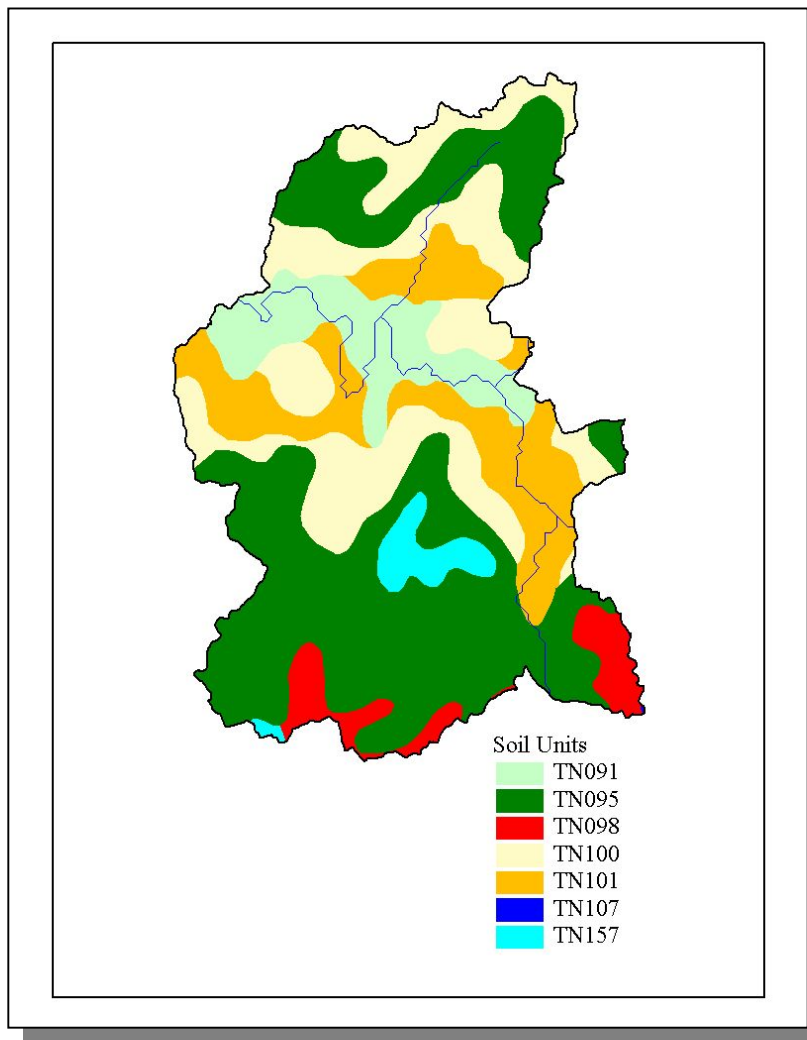


Figure 4-36. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050106.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN091	0.00	B	2.95	5.86	Loam	0.34
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	2.98	4.82	Loam	0.32
TN100	0.00	B	1.14	3.35	Silty Loam	0.21
TN101	0.00	B	1.71	5.39	Loam	0.35
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-33. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050106. The definition of "Hydrologic Group" is provided in Appendix IV.

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	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	Portion of Watershed (%)	1990	1997	2000	% Change (1990-2000)
Fentress	14,669	15,920	16,625	10.51	1,541	1,673	1,747	13.4
Overton	17,636	19,171	20,118	1.25	221	240	252	14.0
Pickett	4,548	4,631	4,945	4.35	198	201	215	8.6
Total	36,853	39,722	41,688		1,960	2,114	2,214	13.0

Table 4-34. Population Estimates in Subwatershed 051301050106.

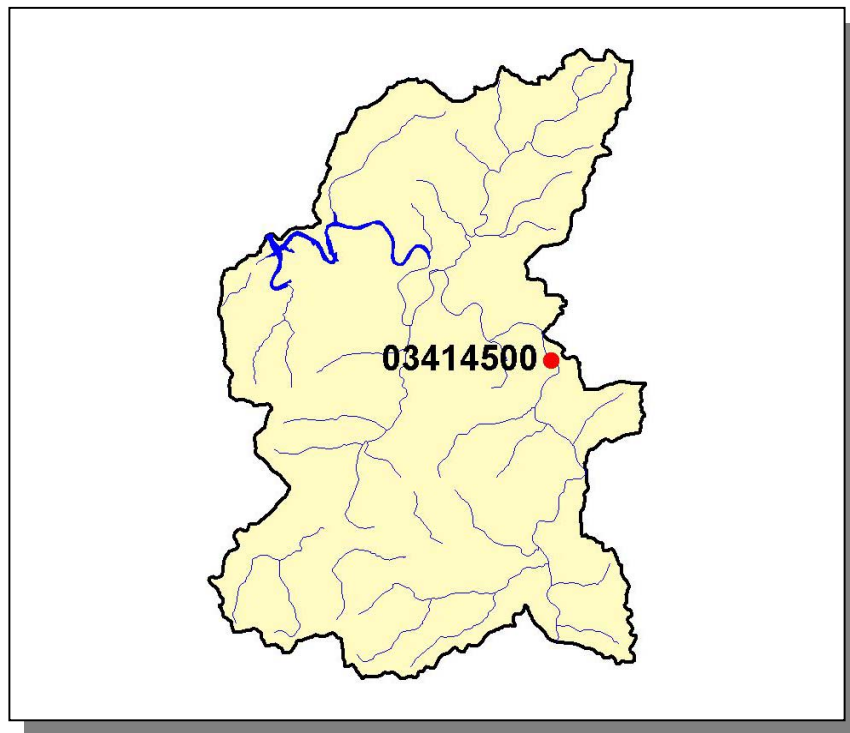


Figure 4-37. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301050106. More information is provided in Appendix IV.

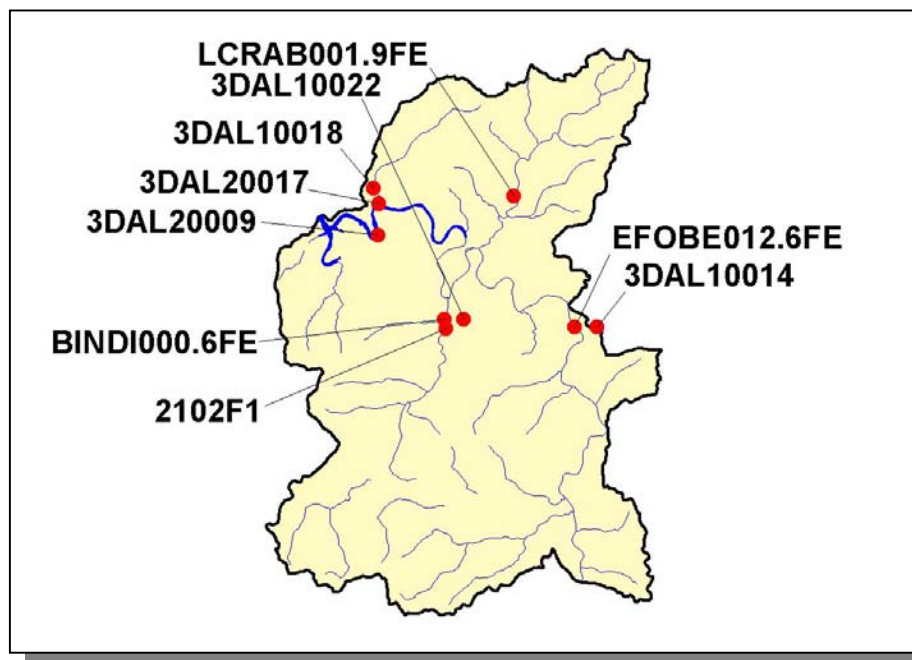


Figure 4-38. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301050106. More information, including site names and locations, is provided in Appendix IV.

4.2.A.vi.a. Point Source Contributions.

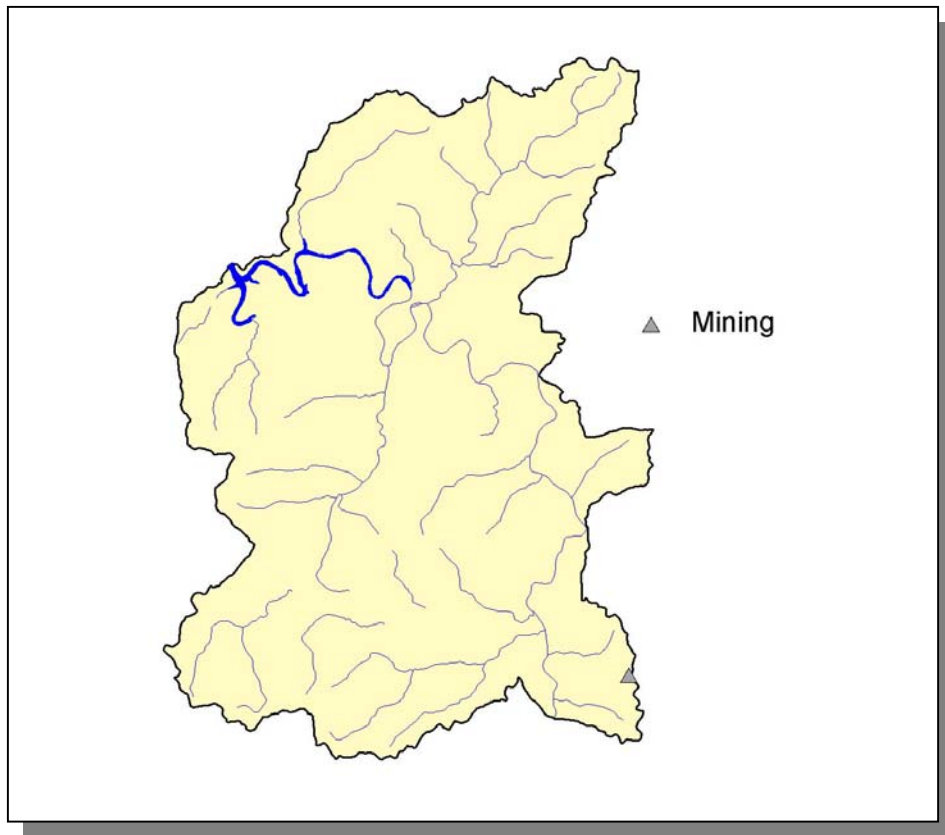


Figure 4-39. Location of Permits Issued in Subwatershed 051301050106. More information, including the names of facilities, is provided in Appendix IV.

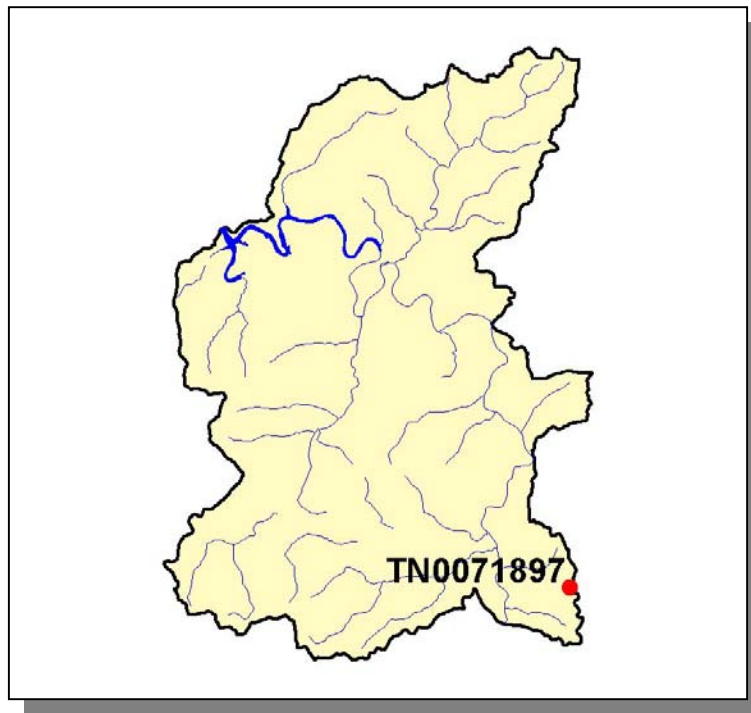


Figure 4-40. Location of Active Mining Sites in Subwatershed 051301050106. More information, including the names of facilities, is provided in Appendix IV.

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4.2.A.vi.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
692	1,430	29	<5	478,206	51	5

Table 4-35. Summary of Livestock Count Estimates in Subwatershed 0604000401. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Fentress	8,058	17,259	430	474	7,290,026	729	79
Overton	15,150	27,812	1,200	1,173	0	811	59
Pickett	5,986	10,864	19	285	0	99	0

Table 4-36. Summary of Livestock Count Estimates in Fentress, Overton, and Pickett Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3
Overton	170.3	170.3	1.7	7.0
Pickett	68.4	68.4	0.2	0.6

Table 4-37. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress, Overton, and Pickett Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.73
Grass (Hayland)	0.19
Legumes, Grass (Hayland)	0.69
Grass, Forbs, Legumes (Mixed Pasture)	0.36
Corn (Row Crops)	15.06
Soybeans (Row Crops)	6.45
Tobacco (Row Crops)	23.18
Wheat (Close-Grown Cropland)	39.95
Other Vegetable and Truck Crops	16.47
Conservation Reserve Program Lands	0.46
Farmsteads and Ranch Headquarters	1.28

Table 4-38. Annual Estimated Total Soil Loss in Subwatershed 051301050106.

4.2.A.vii. 051301050107 (Rockcastle Creek).

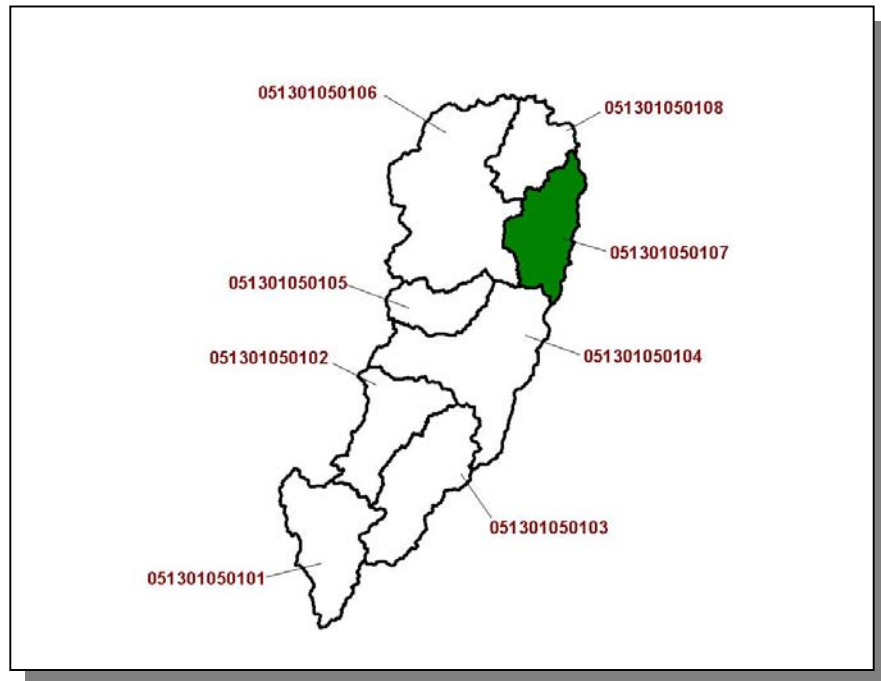


Figure 4-41. Location of Subwatershed 051301050107. All Obey River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

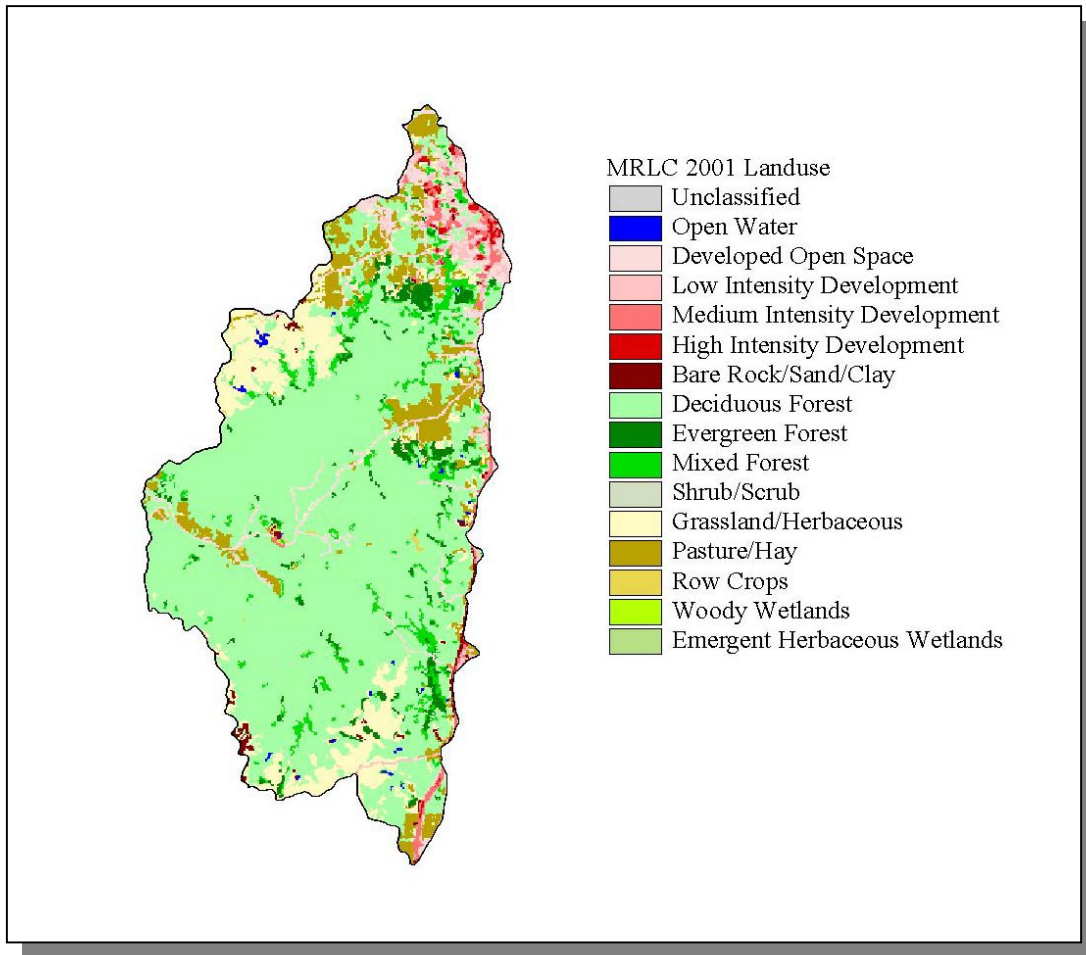


Figure 4-42. Illustration of Land Use Distribution in Subwatershed 051301050107.

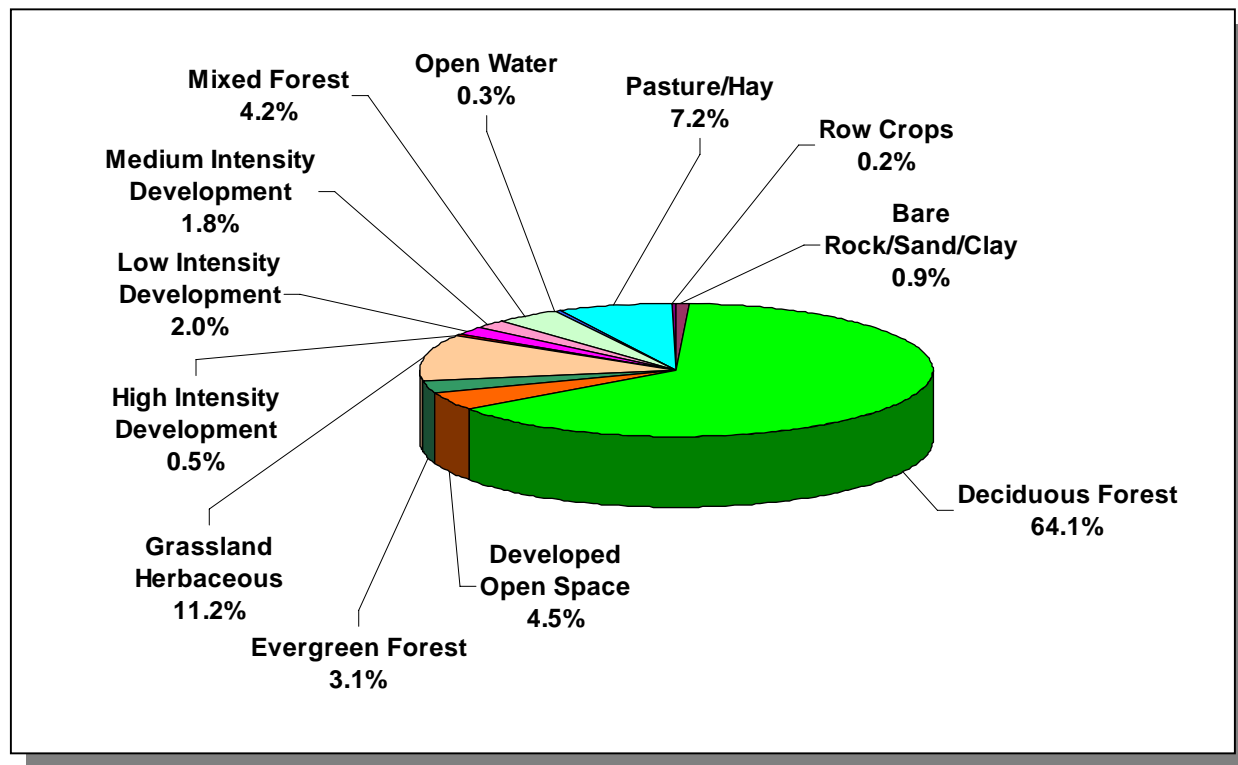


Figure 4-43. Land Use Distribution in Subwatershed 051301050107. More information is provided in Appendix IV.

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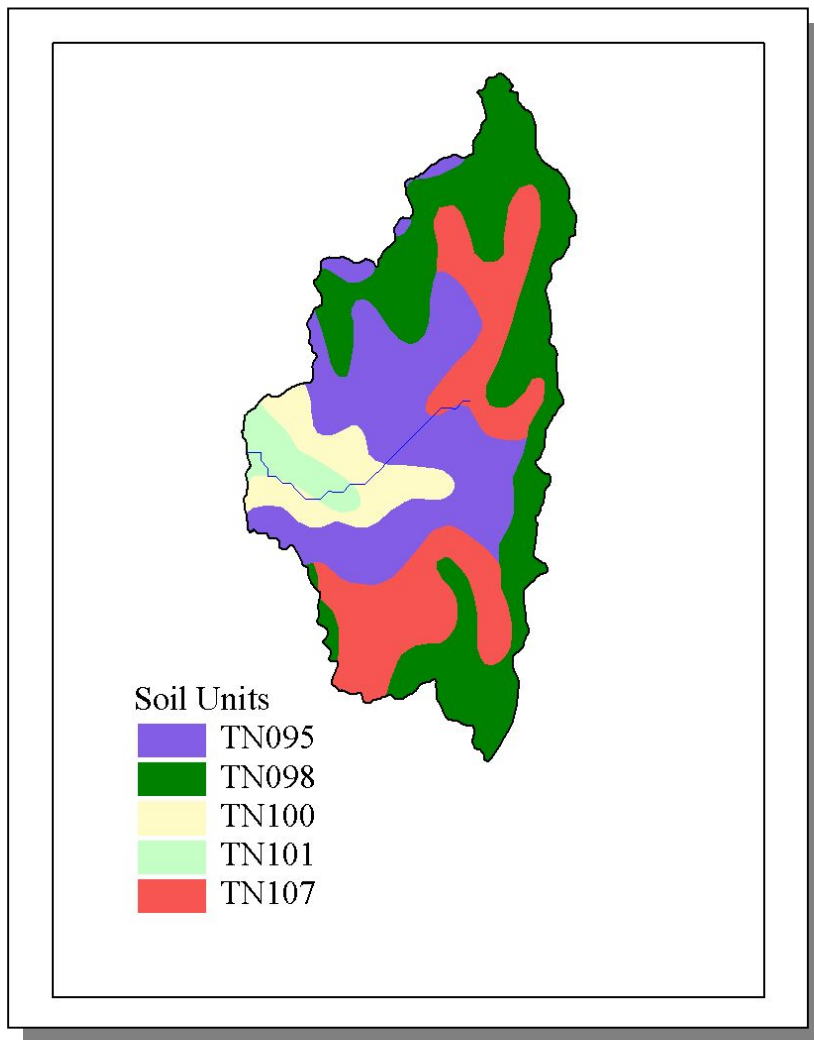


Figure 4-44. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050107.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN091	0.00	B	2.95	5.86	Loam	0.34
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	2.98	4.82	Loam	0.32
TN100	0.00	B	1.14	3.35	Silty Loam	0.21
TN101	0.00	B	1.71	5.39	Loam	0.35
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-39. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050107. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fentress	14,669	15,920	16,625	4.87	714	775	809	13.3

Table 4-40. Population Estimates in Subwatershed 051301050107.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Jamestown	Fentress	1,862	904	635	243	26

Table 4-41. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051301050107.

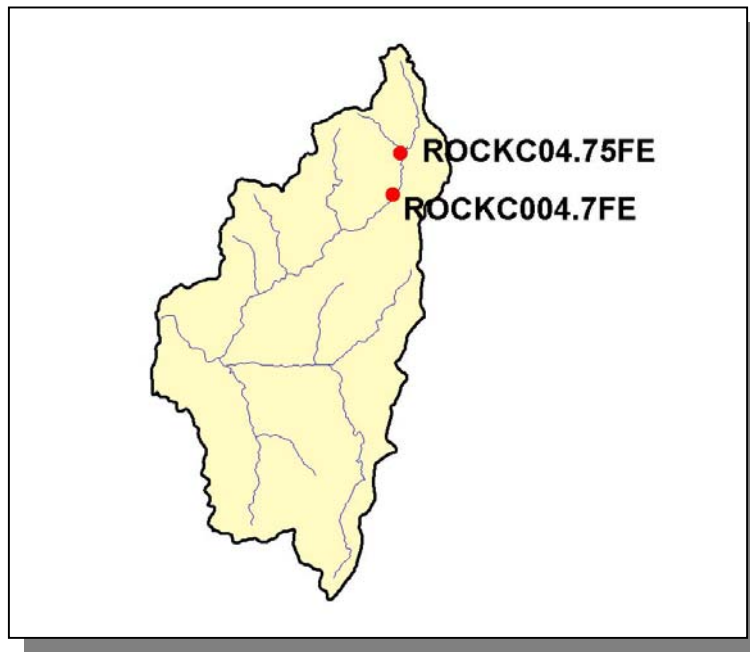


Figure 4-45. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301050107. More information, including site names and locations, is provided in Appendix IV.

4.2.A.vii.a. Point Source Contributions.



Figure 4-46. Location of Permits Issued in Subwatershed 051301050107. More information, including the names of facilities, is provided in Appendix IV.

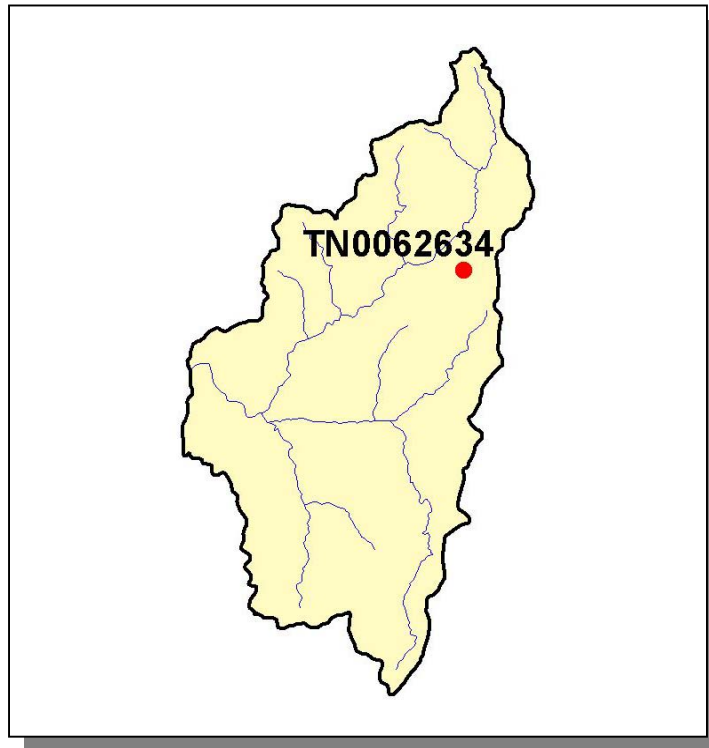


Figure 4-47. Location of Active NPDES Sites in Subwatershed 051301050107. More information, including the names of facilities, is provided in Appendix IV.

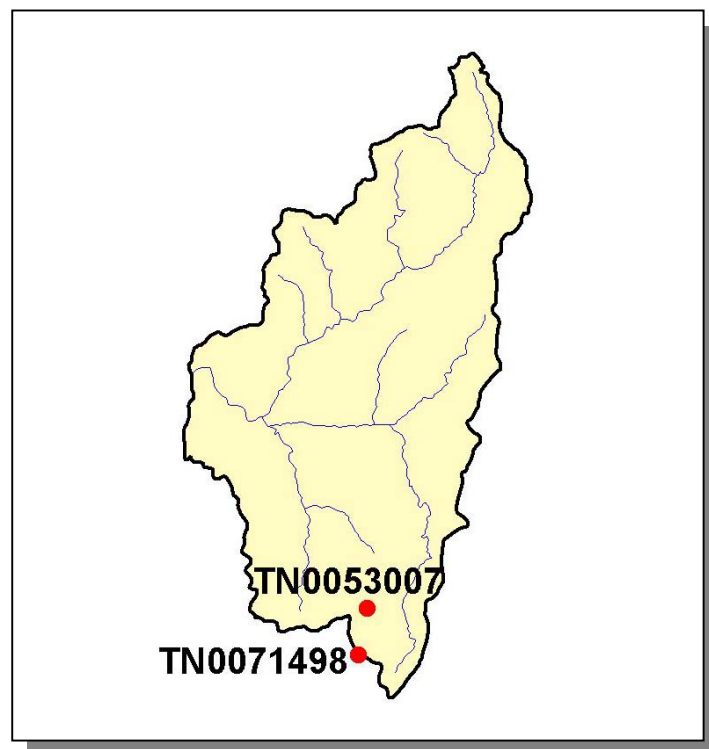


Figure 4-48. Location of Active Mining Sites in Subwatershed 051301050107. More information, including the names of mining operations, is provided in Appendix IV.



Figure 4-49. Location of Concentrated Animal Feeding Operation (CAFO) in Subwatershed 051301050107. More information, including the names of facilities, is provided in Appendix IV.

4.2.A.vii.a.i. Dischargers to Water Bodies Listed on the 2004 303(d) List

There is one NPDES facility discharging to water bodies listed on the 2004 303(d) list in Subwatershed 051301050107:

- TN0062634 (Jamestown STP) discharges to Rockcastle Creek @ RM 4.75

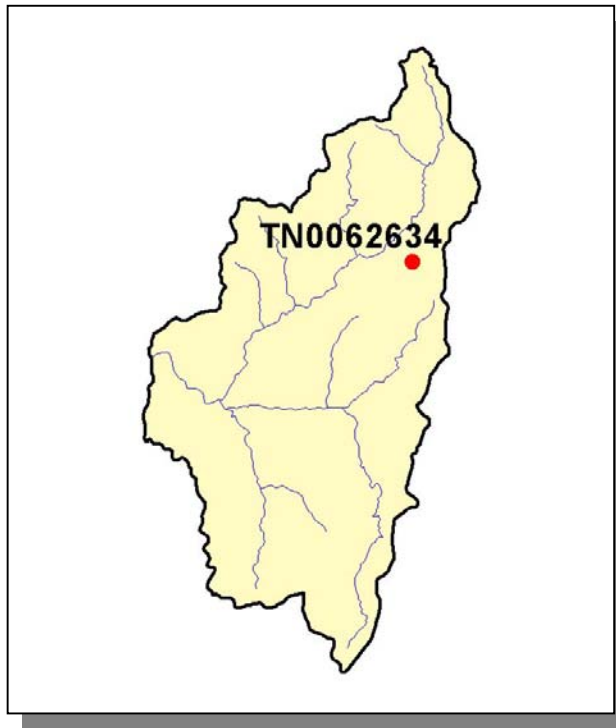


Figure 4-50. Location of NPDES Dischargers to Water Bodies Listed on the 2004 303(d) List in Subwatershed 051301050107. More information, including the names of facilities, is provided in Appendix IV.

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PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0062634			0		

Table 4-42. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051301050107. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	P	NO ₃ +NO ₂	FLOW
TN0062634	X	X	X

Table 4-43. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051301050107.

PERMIT #	WET	CBOD ₅	NH ₃	Hg	TRC	TSS	SETTLABLE SOLIDS	DO	pH
TN0062634	X	X	X	X	X	X	X	X	X

Table 4-44. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051301050107. WET, Whole Effluent Toxicity; CBOD₅, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.

PERMIT #	E. coli	FECAL COLIFORM
TN0062634	X	X

Table 4-45. Bacteria Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051301050107.

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4.2.A.vii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
336	720	18	<5	303,939	30	<5

Table 4-46. Summary of Livestock Count Estimates in Subwatershed 051301050107. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Fentress	8,058	17,259	430	474	7,290,026	729	79

Table 4-47. Summary of Livestock Count Estimates in Fentress County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3

Table 4-48. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.72
Legumes, Grass (Hayland)	0.56
Grass, Forbs, Legumes (Mixed Pasture)	0.27
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.40

Table 4-49. Annual Estimated Total Soil Loss in Subwatershed 051301050107.

4.2.A.viii. 051301050108 (Poplar Creek).

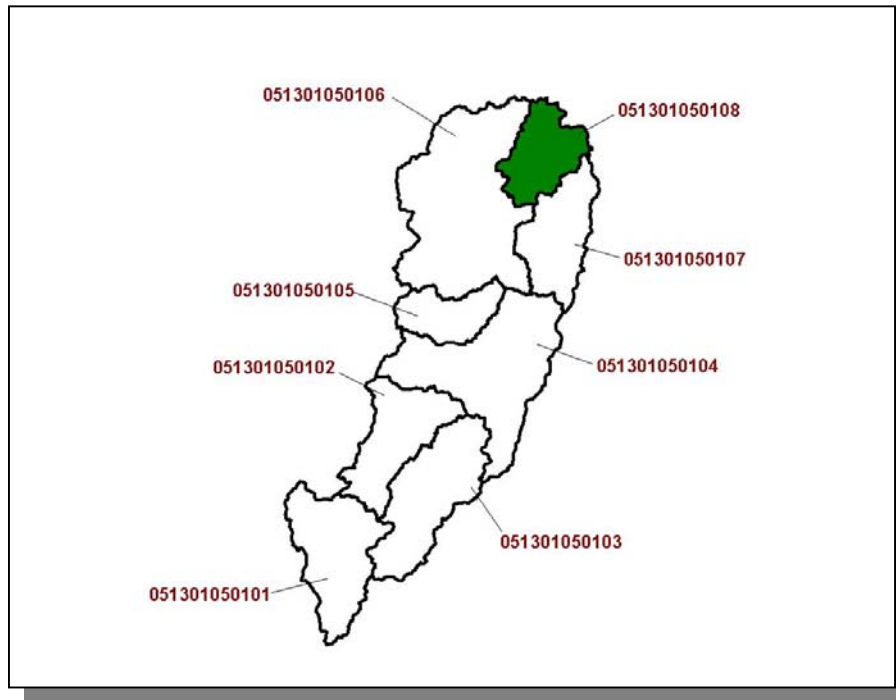


Figure 4-51. Location of Subwatershed 051301050108. All Obey River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

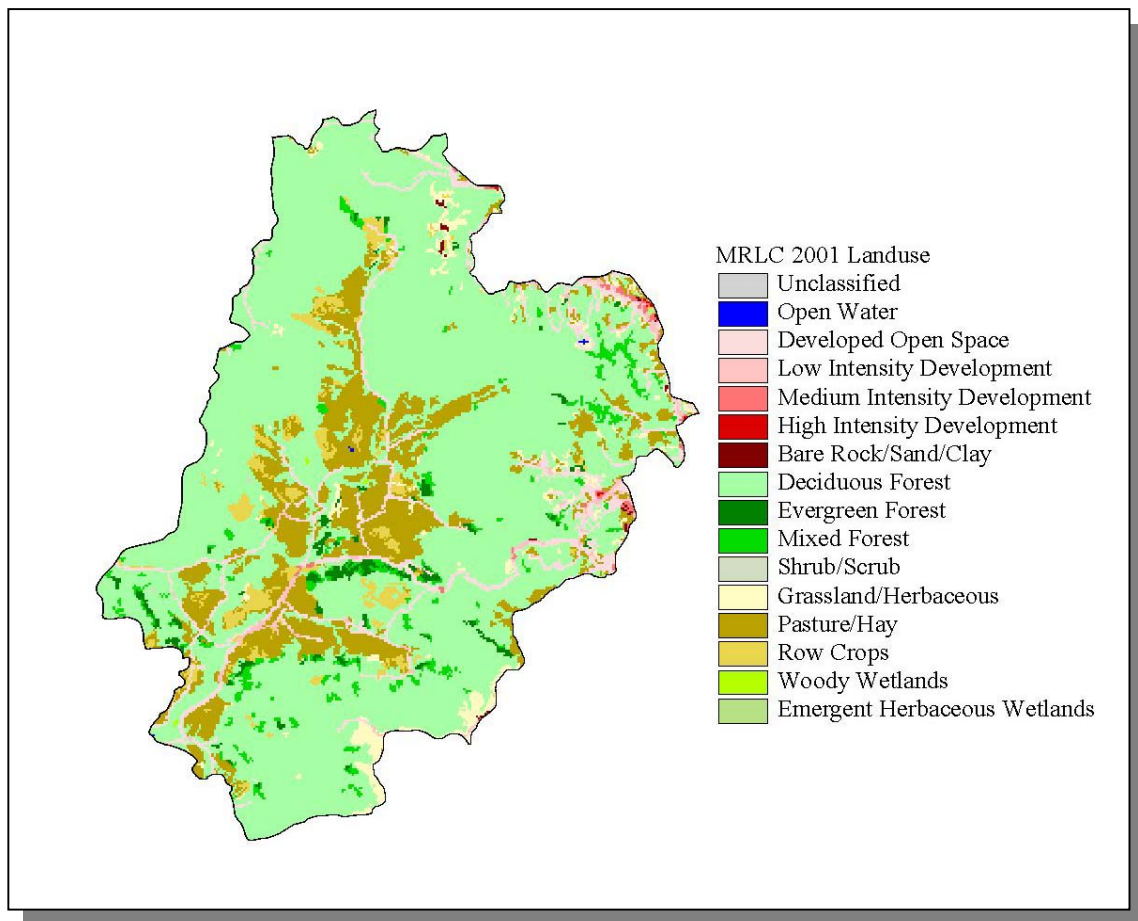


Figure 4-52. Illustration of Land Use Distribution in Subwatershed 051301050108.

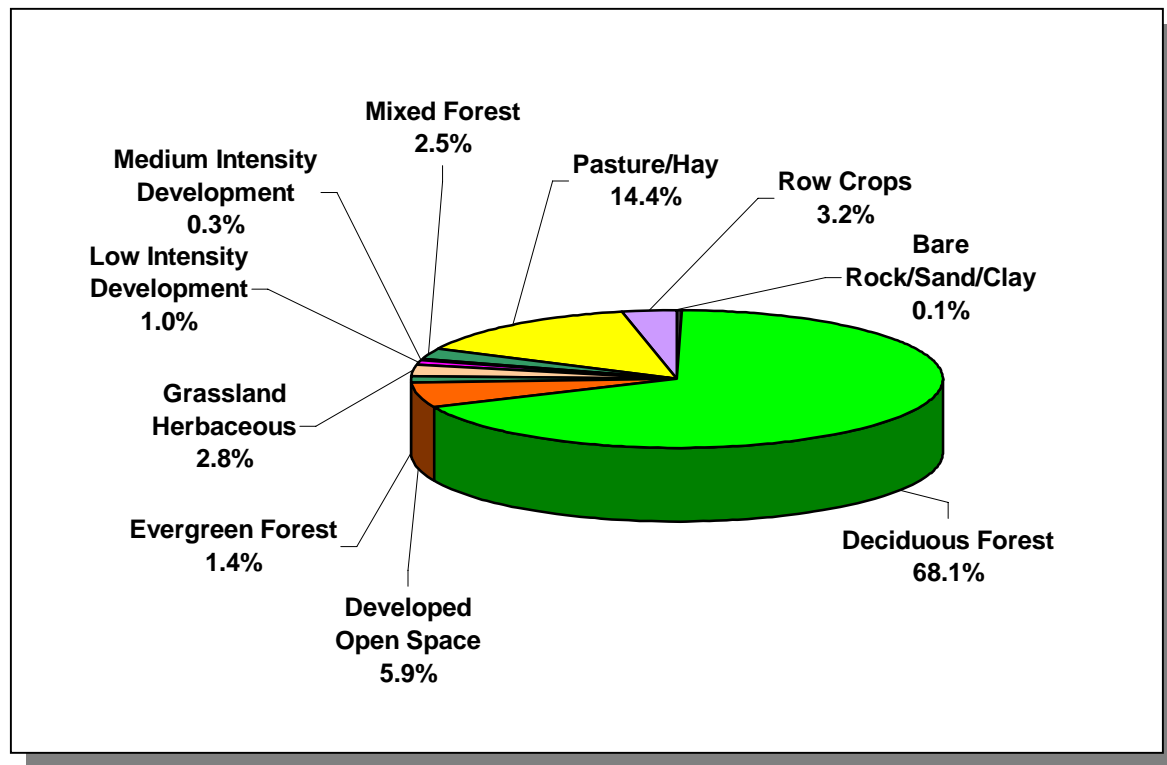


Figure 4-53. Land Use Distribution in Subwatershed 051301050108. More information is provided in Appendix IV.

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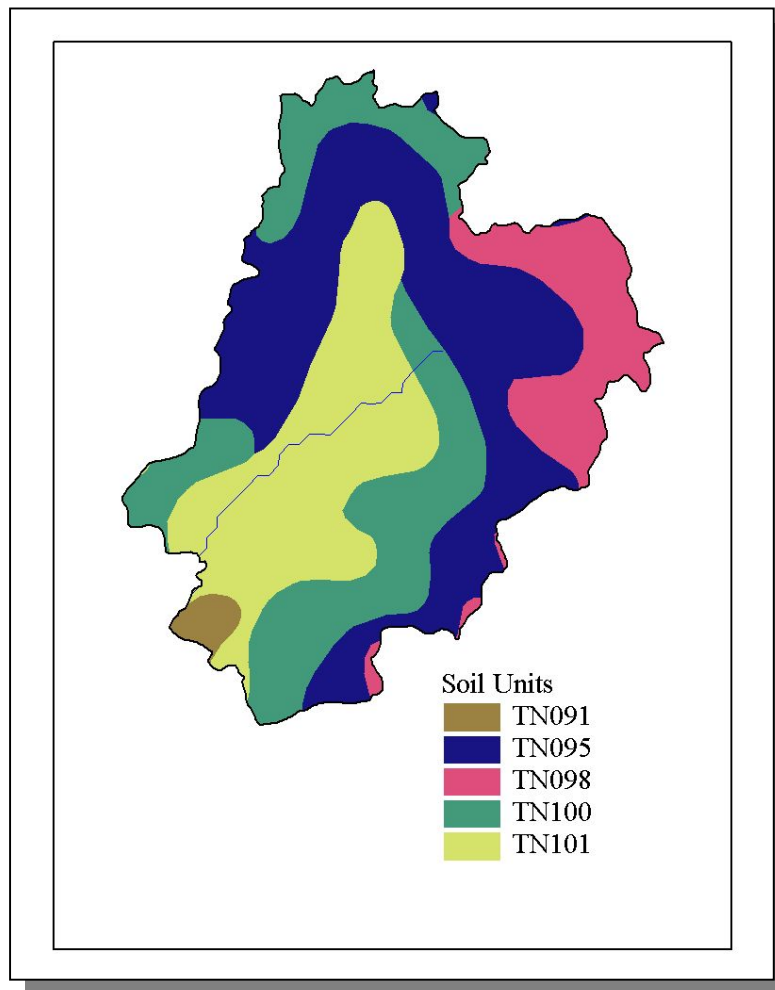


Figure 4-54. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050108.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN091	0.00	B	2.95	5.86	Loam	0.34
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	2.98	4.82	Loam	0.32
TN100	0.00	B	1.14	3.35	Silty Loam	0.21
TN101	0.00	B	1.71	5.39	Loam	0.35

Table 4-50. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301050108. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fentress	14,669	15,920	16,625	3.82	560	608	635	13.4

Table 4-51. Population Estimates in Subwatershed 051301050108.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Jamestown	Fentress	1,862	904	635	243	26

Table 4-52. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051301050108.

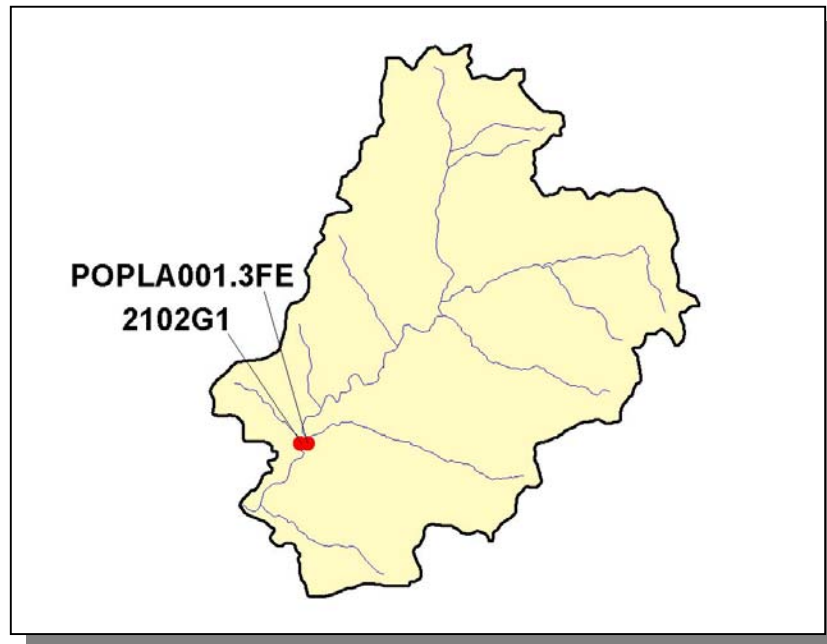


Figure 4-55. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301050108. More information, including site names and locations, is provided in Appendix IV.

4.2.A.viii.a. Point Source Contributions.

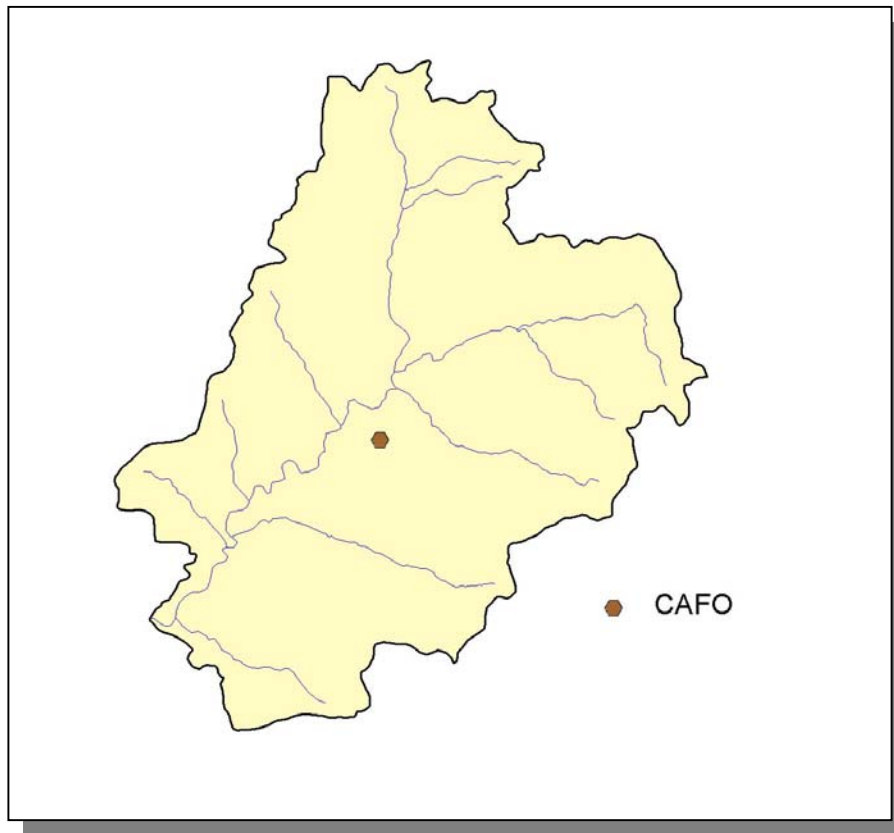


Figure 4-56. Location of Permits Issued in Subwatershed 051301050108. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-57. Location of Concentrated Animal Feeding Operation (CAFO) in Subwatershed 051301050108. More information, including the names of facilities, is provided in Appendix IV.

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4.2.A.viii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
435	933	23	<5	393,904	39	<5

Table 4-53. Summary of Livestock Count Estimates in Subwatershed 051301050108.

According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Fentress	8,058	17,259	430	474	7,290,026	729	79

Table 4-54. Summary of Livestock Count Estimates in Fentress County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3

Table 4-55. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.72
Legumes, Grass (Hayland)	0.56
Grass, Forbs, Legumes (Mixed Pasture)	0.27
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.40

Table 4-56. Annual Estimated Total Soil Loss in Subwatershed 051301050108.